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INSTRUMENT APPROACH PROCEDURE CHARTS

A IFR ALTERNATE AIRPORT MINIMUMS

Standard alternate minimums for non precision approaches are 800-2 (NDB, VOR, LOC, TACAN, LDA, VORTAC, VOR/DME, ASR or WAAS LNAV); for precision approaches 600-2 (ILS or PAR). Airports within this geographical area that require alternate minimums other than standard or alternate minimums with restrictions are listed below. NA - means alternate minimums are not authorized due to unmonitored facility or absence of weather reporting service. Civil pilots see FAR 91. IFR Alternate Airport Minimums: Ceiling and Visibility Minimums not applicable to USA/USN/USAF. Pilots must review the IFR Alternate Airport Minimums Notes for alternate airfield suitability.

NAME — ALTERNATE MINIMUMS

ALBANY, OR

ALBANY MUNI **VOR/DME or GPS-A**
NA except for operators with approved weather reporting service.

ARLINGTON, WA

ARLINGTON MUNI **NDB or GPS Rwy 34**
Category D, 800-2½.
NA when Paine Field control tower closed.

ASTORIA, OR

ASTORIA RGNL **RNAV (GPS) Rwy 26[12]**
VOR Rwy 8[3]
[1]NA when local weather not available.
[2]Categories A, B, 900-2; Category C, 900-2¾; Category D, 900-3.
[3]Category C, 800-2¼; Category D, 900-3.

AURORA, OR

AURORA STATE **LOC Rwy 17[1]**
RNAV (GPS) Rwy 17[23]
RNAV (GPS) Rwy 35[2]
[1]Category D, 800-2¼.
[2]NA when local weather not available.
[3]Categories A, B, 900-2; Category C, 900-2½; Category D, 900-2¾.

BAKER, MT

BAKER MUNI **NDB Rwy 13[1]**
NDB Rwy 31[2]
[1]Categories A,B, 1100-2; Categories C,D, 1100-3.
[2]Categories A,B, 1000-2; Category C, 1000-2¾; Category D, 1000-3.

BAKER CITY, OR

BAKER CITY MUNI **RNAV (GPS) Rwy 13[12]**
VOR-A[13]
VOR/DME Rwy 13[24]
[1]NA when local weather not available.
[2]Category D, 900-2¾.
[3]Categories A,B, 1900-2; Categories C,D, 1900-3.
[4]NA when control zone not in effect.

NAME — ALTERNATE MINIMUMS

BELLINGHAM, WA

BELLINGHAM INTL **ILS or LOC Rwy 16**
RNAV (GPS) Rwy 16
NA when local weather not available.

BIG PINEY, WY

MILEY MEMORIAL FIELD **VOR Rwy 31**
Category D, 800-2¼.

BILLINGS, MT

BILLINGS LOGAN INTL **NDB Rwy 10L[1]**
RNAV (GPS) Rwy 10L[2]
RNAV (GPS) Rwy 28R[3]
[1]Category D, 800-2¼.
[2]Categories A,B,C,D, 800-2¼.
[3]Categories A,B, 900-2; Categories C,D, 900-3.

BOISE, ID

BOISE AIR TERMINAL(GOWEN FIELD) **LOC BC Rwy 28L**
RNAV (GPS) Y Rwy 10R
RNAV (GPS) Y Rwy 28L
VOR/DME or TACAN Rwy 10L
VOR/DME or TACAN Rwy 28L
Category E, 1000-3.

BOZEMAN, MT

GALLATIN FIELD **VOR Rwy 12**
Category C, 800-2¼; Category D, 800-2½.

BREMERTON, WA

BREMERTON NATIONAL .. **RNAV (GPS) Rwy 1**
RNAV (GPS) Rwy 19[1]
NA when local weather not available.
[1]Categories A,B, 1200-2; Categories C,D, 1200-3.

BUFFALO, WY

JOHNSON COUNTY **RNAV (GPS) Rwy 31[1]**
VOR/DME Rwy 31[2]
NA when local weather not available.
[1]Category D, 800-2¼.

NAME ALTERNATE MINIMUMS

BURLEY, ID
BURLEY MUNI **VOR-A**
VOR/DME-B
NA when local weather not received.

BURLINGTON/MOUNT VERNON, WA
SKAGIT RGNL **NDB Rwy 10**[1]
RNAV (GPS) Rwy 10
RNAV (GPS) Rwy 28
NA when local weather not available.
[1]Categories A,B, 1300-2; Categories C,D, 1300-3.

BURNS, OR
BURNS MUNI **VOR Rwy 30**
Categories A, B, 1400-2; Categories C,D, 1400-3.

BUTTE, MT
BERT MOONEY **ILS Y Rwy 15**[1]
LOC/DME Rwy 15[2]
RNAV (GPS) Y Rwy 15[3]
RNAV (GPS) Z Rwy 15,1200-2
VOR or GPS-B,1400-3
VOR/DME or GPS-A,3000-3
[1]Categories A, B, C, 1200-4.
[2]Categories A,B, 1300-2; Categories C,D, 1300-3.
[3]Categories A,B, 1500-2; Categories C,D, 1500-3.

CALDWELL, ID
CALDWELL
INDUSTRIAL **RNAV (GPS) Rwy 12**
RNAV (GPS) Rwy 30
NA when local weather not available.

CASPER, WY
CASPER/NATRONA
COUNTY INTL **ILS or LOC Rwy 3**
ILS, Categories A,B, 800-2; Category C 800-2½; Category D, 800-2¾; Category E, 900-3.
LOC, Category C, 800-2½; Category D, 800-2¾; Category E, 900-3.

CHEYENNE, WY
CHEYENNE RGNL/JERRY OLSON
FIELD **ILS or LOC Rwy 27**[1]
NDB Rwy 27[1]
RNAV (GPS) Rwy 9[2]
RNAV (GPS) Rwy 13[2]
RNAV (GPS) Rwy 31[2]
[1]NA when control tower closed.
[2]NA when local weather not available.

NAME ALTERNATE MINIMUMS

CODY, WY
YELLOWSTONE
REGIONAL **RNAV (GPS) Rwy 22**[1]
VOR or GPS-A[2]
[1]Category C, 800-2¼; Category D, 200-2¾.
[2]Category D, 900-3.

COEUR D'ALENE, ID
COEUR D'ALENE-PAPPY
BOYINGTON FIELD **ILS or LOC/DME Rwy 5**
NDB Rwy 5
RNAV (GPS) Rwy 5
VOR Rwy 5
VOR/DME Rwy 1
NA when local weather not available.

CORVALLIS, OR
CORVALLIS MUNI **VOR-A**
Categories A,B,1200-2; Categories C,D, 1200-3.

DEER PARK, WA
DEER PARK **RNAV (GPS) Rwy 34**
NA when local weather not available.

DILLON, MT
DILLON **VOR or GPS-A,**1500-3
VOR/DME or GPS-B
NA when Dillon altimeter setting not available.

DOUGLAS, WY
CONVERSE COUNTY **VOR Rwy 29**
Categories A,B, 1100-2; Categories C,D, 1100-3. DME standard.

EASTSOUND, WA
ORCAS ISLAND **RNAV (GPS)-A**
Categories A, B, 1100-2.
NA when local weather not available.

ELLENSBURG, WA
BOWERS FIELD **RNAV (GPS) Rwy 25**[1]
RNAV (GPS) Rwy 29
VOR-B[2]
NA when local weather not available.
[1]Category D, 800-2¼.
[2]Category A, 1500-2.

EPHRATA, WA
EPHRATA MUNI **RNAV (GPS) Rwy 3**[1]
RNAV (GPS) Rwy 21[2]
VOR/DME Rwy 3[1]
VOR Rwy 21[1]
NA when local weather not available.
[1]Category D, 1300-3.
[2]Category C, 800-2¼; Category D, 1300-3.

NAME ALTERNATE MINIMUMS

EUGENE, OR
MAHLON-SWEET FIELD **ILS or LOC/DME Z Rwy 16R[1]**
ILS or LOC Y Rwy 16R[1]
ILS or LOC/DME Rwy 16L[12]
RNAV (GPS) Rwy 34R[2]
VOR or GPS-A[3]
[1]NA when control tower closed.
[2]NA when local weather not available.
[3]Categories A,B, 900-2; Category C, 900-2½; Category D, 900-2¾.

EVANSTON, WY
EVANSTON-UINTA COUNTY BURNS FIELD **ILS or LOC/DME Rwy 23**
Categories C,D, 700-2.

EVERETT, WA
SNOHOMISH COUNTY(PAINE FIELD) **ILS or LOC/DME Rwy 16R**
NA when control tower closed.
NA when local weather not available.

FORT BENTON, MT
FORT BENTON **RNAV (GPS) Rwy 23**
NA when local weather not available.

GILLETTE, WY
GILLETTE-CAMPBELL COUNTY **ILS or LOC Rwy 34[12]**
RNAV (GPS) Rwy 16[3]
RNAV (GPS) Rwy 34[4]
VOR/DME Rwy 16[5]
VOR/DME Rwy 34[1]
[1]Categories A,B, 900-2; Category C, 900-2½; Category D, 1000-3.
[2]NA when control tower closed.
[3]Categories A,B,C, 800-2¼; Category D, 1000-3.
[4]Categories A,B,C,D, 1200-4.
[5]Category C, 800-2¼; Category D, 1000-3.

GLASGOW, MT
WOKAL FIELD/ GLASGOW INTL **VOR Rwy 12**
Categories A,B, 900-2; Categories C,D, 900-3.
VOR/DME standard.

GLENDIVE, MT
DAWSON COMMUNITY **NDB or GPS Rwy 12,**900-2¾

GOODING, ID
GOODING MUNI **RNAV (GPS) Rwy 7**
RNAV (GPS) Rwy 25
NA when local weather not available.

NAME ALTERNATE MINIMUMS

GRAY AAF (KGRF)
FORT LEWIS, WA **NDB Rwy 15**
NDB Rwy 33
ILS or LOC Rwy 15
COPTER NDB Rwy 15
NA when control tower closed.

GREAT FALLS, MT
GREAT FALLS INTL **NDB Rwy 34**
Category D, 800-2¼.

GREYBULL, WY
SOUTH BIG HORN COUNTY **RNAV (GPS)-A**
RNAV (GPS) Rwy 33[1]
NA when local weather not available.
[1]Category D, 1200-3.

HAILEY, ID
FRIEDMAN MEMORIAL **RNAV (GPS) W Rwy 31**
Categories A,B, 1900-2; Category C, 1900-3.

HAVRE, MT
HAVRE CITY-COUNTY **VOR Rwy 26**
Categories A, B, 900-2; Category C, 900-2¾; Category D, 900-3.

HELENA, MT
HELENA RGNL **ILS or LOC Y Rwy 27[12]**
ILS or LOC Z Rwy 27[12]
LOC/DME BC-C[13]
NDB-D[14]
RNAV (GPS) Y Rwy 9[5]
RNAV (GPS) Rwy 23[6]
RNAV (GPS) X Rwy 27[5]
RNAV (RNP) Z Rwy 9[7]
RNAV (RNP) Y Rwy 27[7]
RNAV (RNP) Z Rwy 27[79]
VOR-A[8]
VOR/DME-B[6]
[1]NA when control tower closed.
[2]Categories A, B, 1600-2; Categories C, D, E, 1600-3.
[3]Categories A, B, 1300-2; Categories C, D, 1300-3.
[4]Category A, 1200-2.
[5]Categories A, B, 1600-2; Categories C, D, 1600-3.
[6]Categories A, B, 900-2; Category C, 900-2¾; Category D, 900-3.
[7]NA when local weather not available.
[8]Categories A, B, 2900-2; Categories C, D, 2900-3.
[9]1000-4.

NAME ALTERNATE MINIMUMS

HOQUIAM, WA

BOWERMAN **RNAV (GPS) Rwy 24**[1]
VOR/DME Rwy 24[2]
VOR Rwy 6[1]

[1]Category D, 800-2¼.
[2]Categories A,B, 900-2; Category C, 900-2¾; Category D, 900-3.

IDAHO FALLS, ID

IDAHO FALLS RGNL **ILS or LOC Rwy 20**[1]
LOC BC Rwy 2[2]
RNAV (GPS) Rwy 20[3]
VOR Rwy 20[3]

[1]ILS, Category E, 700-2½. LOC, Category E, 800-2½.
[2]Category E, 800-2½.
[3]NA when local weather not available.

JACKSON, WY

JACKSON HOLE **RNAV (GPS) X Rwy 1**[1]
RNAV (GPS) Y Rwy 19[1]
RNAV (RNP) Y Rwy 1, 10681200-4
VOR/DME Rwy 1[2]
VOR/DME Rwy 19[3]

[1]Categories A,B, 1200-2; Categories C,D, 1200-3.
[2]Categories A,B,1000-2; Categories C,D, 1000-3.
[3]Categories A,B,1400-2; Categories C,D, 1400-3.

JEROME, ID

JEROME COUNTY **RNAV (GPS) Rwy 9**
RNAV (GPS) Rwy 27[1]
VOR/DME-A

NA when local weather not available.
[1]Categories A, B, 1300-2; Categories C, D, 1300-3.

JOHN DAY, OR

GRANT COUNTY RGNL/
OGILVIE FIELD **RNAV (GPS) Y Rwy 9**
Category B, 900-2; Category C, 900-2½.

KALISPELL, MT

GLACIER PARK INTL **ILS or LOC Rwy 2**[1]
RNAV (RNP) Y Rwy 2[2]
RNAV (RNP) Rwy 20, 800-2½[2]

[1]Categories C, D, 700-2.
[2]NA when local weather not available.

KELSO, WA

SOUTHWEST
WASHINGTON RGNL **RNAV (GPS) Rwy 12**
Categories A, B, 900-2.

NAME ALTERNATE MINIMUMS

KLAMATH FALLS, OR

KLAMATH FALLS **ILS or LOC Rwy 32**[1]
RNAV (GPS) Rwy 14[2]
VOR/DME or TACAN Rwy 14[3]
VOR/DME or TACAN Rwy 32[4]
VOR or GPS-B,2100-3

[1]Categories A,B, 900-2; Category C, 900-2¾; Category D, 1000-3. LOC, DME required.
[2]Categories A,B, 900-2; Category C, 900-2¾; Category D, 1000-3.
[3]Categories C,D, 1000-3; Category E, NA.
[4]Category B, 900-2; Categories C,D, 1000-3; Category E, 1500-3.

LAKEVIEW, OR

LAKE COUNTY **VOR/DME-A**
Categories A,B, 900-2; Category C, 900-2½; Category D, 900-2¾.

LEWISTON, ID

LEWISTON-NEZ PERCE
COUNTY **ILS Rwy 26**[12]
RNAV (GPS) Y Rwy 8[3]
RNAV (GPS) Y Rwy 12[3]
RNAV (GPS) Y Rwy 26[3]
RNAV (RNP) Rwy 30[4]
RNAV (RNP) Z Rwy 8[4]
RNAV (RNP) Z Rwy 12[4]
RNAV (RNP) Z Rwy 26[4]
VOR Rwy 8[5]
VOR Rwy 26[3]

[1]ILS, Category D, 800-2¼.
[2]NA when control tower closed.
[3]Category D, 800-2¼.
[4]NA when local weather not available.
[5]Categories A, B, 1100-2; Categories C, D, 1100-3.

LEWISTOWN, MT

LEWISTOWN MUNI **RNAV (GPS) Rwy 7**
VOR Rwy 7

Category D, 800-2¼.

LIVINGSTON, MT

MISSION FIELD **VOR/DME-B**[1]
VOR-A[2]

[1]Categories A, B, 900-2; Category C, 900-2½; Category D, 1000-3.
[2]Categories A, B, 2200-2; Categories C,D, 2200-3.

NAME ALTERNATE MINIMUMS

MC CALL, ID

MC CALL MUNI **RNAV (GPS) Rwy 16**[1]
RNAV (GPS) Y Rwy 34[2]
RNAV (GPS) Z Rwy 34[34]

[1]Category C, 900-2½.
[2]Categories A, B, 1600-2; Categories C, D, 1600-3.
[3]NA when local weather not available.
[4]Category C, 900-2½; Category D, 1000-3.

MC MINNVILE, OR

MC MINNVILLE MUNI **ILS or LOC Rwy 22**
RNAV (GPS) Rwy 4
RNAV (GPS) Rwy 22
VOR/DME-B

NA when local weather not available.
Category D 800-2¼.

MEDFORD, OR

ROGUE VALLEY INTL-
MEDFORD **ILS or LOC/DME Rwy 14**[12]
LOC/DME BC-B[23]
RNAV (GPS)-D[3]
RNAV (GPS) Rwy 14[4]
VOR-A[5]
VOR/DME-C[3]
VOR/DME Rwy 14[5]

[1]ILS, Categories A, B, C, 700-2; Category D, 900-2½. LOC, Category D, 900-2½.
[2]NA when control tower closed.
[3]Categories A, B, 2300-2; Categories C, D, 2300-3.
[4]Categories A, B, 1100-2; Categories C, D, 1100-3.
[5]Categories A, B, 1400-2;Category C, D 1400-3.

MISSOULA, MT

MISSOULA INTL **ILS Rwy 11**[1]
RNAV (GPS) Y Rwy 11[23]
RNAV (RNP) Z Rwy 11[2],800-2½
VOR/DME or GPS-A,2000-3
VOR/DME or GPS-B,2000-3

[1]ILS, 1600-6. LOC,NA.
[2]NA when local weather not available.
[3]Categories A, B, 1900-2; Categories C, D, 1900-3.

NAME ALTERNATE MINIMUMS

MOSES LAKE, WA

GRANT COUNTY INTL ... **ILS or LOC Rwy 32R**[1]
NDB Rwy 32R[2]
RNAV (GPS) Rwy 4[1]
RNAV (GPS) Rwy 14L[1]
RNAV (GPS) Rwy 22[1]
VOR Rwy 4[2]
VOR -1 Rwy 14L[2]
VOR -3 Rwy 14L[2]
VOR Rwy 22[2]
VOR Rwy 32R[2]

[1]NA when local weather not available.
[2]NA when control tower closed.

NEWCASTLE, WY

MONDELL FIELD **VOR or GPS Rwy 31**
NA except for operators with approved weather reporting service.
Categories A,B, 900-2;Categories C,D, 900-3.

NORTH BEND, OR

SOUTHWEST OREGON
RGNL **ILS or LOC Rwy 4**[1]
NDB or GPS Rwy 4[2]
VOR or GPS-A[3]
VOR/DME or GPS-B[4]
VOR/DME Rwy 4[4]

[1]ILS,Categories A,B, 800-2; Category C, 900-2¼, Category D,1000-3. LOC, Category C, 900-2¼, Category D,1000-3.
[2]Category C, 900-2¼;Category D, 1000-3.
[3]Categories A,B, 1100-2; Categories C,D, 1100-3.
[4]Categories C,D, 1000-3.

OAK HARBOR, WA

AJ EISENBERG **RNAV (GPS) Rwy 7**
NA when local weather not available.

OLYMPIA, WA

OLYMPIA RGNL **ILS or LOC Rwy 17**[123]
RNAV (GPS) Rwy 17[2]
RNAV (GPS) Rwy 35[2]
VOR-A[24]
VOR/DME Rwy 35[2]

[1]ILS, Categories C, D, 700-2.
[2]NA when local weather not available.
[3]NA when control tower closed.
[4]Category D, 800-2¼.

ONTARIO, OR

ONTARIO MUNI **RNAV (GPS) Rwy 14**
RNAV (GPS) Rwy 32
NA when local weather not available.

NAME ALTERNATE MINIMUMS

PASCO, WA

TRI-CITIES **ILS or LOC Rwy 21R[1][2]**
RNAV (GPS) Rwy 3L
RNAV (GPS) Rwy 12
RNAV (GPS) Rwy 21R
RNAV (GPS) Rwy 30
VOR Rwy 21R[3]
VOR/DME Rwy 30

NA when local weather not available.
[1]NA when control tower closed.
[2]ILS, Categories A,B,C, 700-2; Category D, 700-2¼. LOC, Category D, 800-2¼.
[3]Category D, 800-2¼.

PENDLETON, OR

EASTERN OREGON RGNL AT
PENDLETON **ILS or LOC/DME Rwy 25[1]**
RNAV (GPS) Rwy 7
RNAV (GPS) Rwy 11
RNAV (GPS) Rwy 25
RNAV (GPS) Rwy 29
VOR Rwy 7

NA when local weather not available.
[1]ILS, NA when control tower closed.

PINEDALE, WY

PINEDALE/RALPH WENZ
FIELD **NDB-A[1]**
RNAV (GPS) Rwy 11[2]
RNAV (GPS) Rwy 29[2]

NA when local weather not available.
[1]Category C, 800-2¼; Category D, 800-2½.
[2]Category D, 800-2½.

POCATELLO, ID

POCATELLO RGNL **ILS or LOC Rwy 21[1]**
RNAV (GPS) Rwy 3[2]
RNAV (GPS) Rwy 21[2]

[1]NA when control zone not in effect.
[2]NA when local weather not available.

PORT ANGELES, WA

WILLIAM R
FAIRCHILD INTL **ILS or LOC Rwy 8**
RNAV (GPS) Rwy 8[1]
RNAV (GPS) Rwy 26

NA when local weather not available.
[1]Categories A, B, 1000-2; Categories C, D, 1000-3.

NAME ALTERNATE MINIMUMS

PORTLAND, OR

PORTLAND INTL **ILS or LOC Rwy 10L[1]**
ILS or LOC Rwy 10R[2]
ILS or LOC Rwy 28L[3]
ILS or LOC Rwy 28R[4]
LOC/DME Rwy 21[5]
RNAV (GPS) Rwy 10L[5]
RNAV (GPS) Rwy 10R[6]
RNAV (GPS) Rwy 12[7]
RNAV (GPS) Rwy 28L[8]
RNAV (GPS) Rwy 28R[8]
VOR/DME Rwy 21[5]
VOR-A [9]
VOR Rwy 28R[5]

[1]ILS, Category A, 700-2; Categories B,C, 800-2; Category D, 1000-3. LOC, Category D, 1000-3.
[2]Categories A,B, 900-2; Category C, 900-2½; Category D, 1000-3; Category E, 1100-3.
[3]ILS, Category A, 700-2; Categories B,C, 800-2; Category D, 1000-3; Category E, 1100-3. LOC, Category D, 1000-3; Category E, 1100-3.
[4]ILS, Category A, 700-2; Categories B,C, 800-2; Category D, 1000-3. LOC, Category D, 1000-3.
[5]Category D, 1000-3.
[6]Categories A,B,C 800-5; Category D, 1000-5.
[7]NA when local weather not available.
[8]Category D, 1000-3.
[9]Categories A,B, 900-2; Category C, 900-2½; Category D, 1000-3.

PORTLAND-HILLSBORO .. **ILS or LOC Rwy 12[1]**
RNAV (GPS) Rwy 12
RNAV (GPS) Rwy 30

NA when local weather not available.
[1]Categories A, B, 1500-2; Categories C, D, 1500-3.

PORTLAND-TROUTDALE **NDB or GPS-A**
Categories A,B, 1100-2; Category C, 1100-3; Category D, 1300-3.

PULLMAN/MOSCOW, WA

PULLMAN/MOSCOW
MUNI **RNAV (GPS) Rwy 5,**800-2¼

RAWLINS, WY

RAWLINS MUNI/
HARVEY FIELD **RNAV (GPS) Rwy 22[1]**
VOR/DME Rwy 22[2]

[1]Categories A, B, 900-2; Category C, 900-2½; Category D, 900-2¾.
[2]Categories A, B, 1000-2; Category C, 1000-2¾; Category D, 1000-3.

NAME — ALTERNATE MINIMUMS

REDMOND, OR

ROBERTS FIELD **ILS or LOC Rwy 22**[1]
VOR/DME Rwy 22[2]

[1]ILS,LOC,Category D,800-2¼; Category E, 800-2½.
[2]Category A, B, 1000-2; Category C, 1000-2¾; Category D, E, 1000-3.

RENTON, WA

RENTON MUNI **NDB Rwy 16**[1]
RNAV (GPS) Y Rwy 16[2]
RNAV (GPS) Z Rwy 16[3]

NA when local weather not available.
[1]Categories A, B, 1000-2; Categories C, D, 1000-3.
[2]Categories A, B, 900-2; Category C, 900-2¾; Category D, 900-3.
[3]Categories A, B, 900-2.

REXBURG, ID

REXBURG-MADISON COUNTY **RNAV (GPS) Rwy 35**

NA when local weather not available.
Category D, 800-2½.

RICHLAND, WA

RICHLAND **NDB Rwy 19**[1]
RNAV (GPS) Rwy 19[1]
RNAV (GPS) Rwy 26[1]
VOR/DME-A[2]
VOR Rwy 26[1]

[1]Category D, 800-2½.
[2]Categories A,B, 900-2; Category C, 900-2¾; Category D, 900-3.

RIVERTON, WY

RIVERTON RGNL **ILS or LOC Rwy 28**
RNAV (GPS) Rwy 10
RNAV (GPS) Rwy 28
VOR Rwy 10
VOR Rwy 28

NA when local weather not available.

ROSEBURG, OR

ROSEBURG RGNL **RNAV (GPS)-B**

NA when local weather not available.
Categories A, B, 1200-2; Category C, 1200-3; Category D, 1400-3.

SALEM, OR

MCNARY FIELD **ILS or LOC Rwy 31**[12]
LOC/DME Rwy 31[3]
RNAV (GPS) Rwy 31[13]

[1]NA when local weather not available.
[2]ILS, Categories A, B, 800-2; Category C, 800-2¼; Category D, 800-2½. LOC, Category C, 800-2¼; Category D, 800-2½.
[3]Category D, 800-2½.

NAME — ALTERNATE MINIMUMS

SCAPPOOSE, OR

SCAPPOOSE INDUSTRIAL AIRPARK **VOR/DME or GPS-A**

Category B, 900-2; Category C, 1000-2¾; Category D 1300-3.

SEATTLE, WA

BOEING FIELD-KING COUNTY INTL **ILS Rwy 13R**[1]
ILS Rwy 31L[2]
LOC/DME Rwy 13R[3]
RNAV (GPS) Y Rwy 13R[4]
RNAV (RNP) Z Rwy 13R[5]

[1]ILS, Category A, 800-2; Category B, 900-2; Category C, 900-2½; Category D, 1000-3.
[2]Category A, 800-2; Category B, 900-2; Category C, 900-2½; Category D, 1000-3.
[3]Category B, 900-2; Category C, 900-2½; Category D, 1000-3.
[4]Category B, 900-2; Category C, 900-2¾; Category D, 1000-3.
[5]Categories A, B, C, D, 800-2¼.

SHERIDAN, WY

SHERIDAN COUNTY **ILS or LOC/DME Rwy 32**
RNAV (GPS) Rwy 14
RNAV (GPS) Rwy 32
VOR Rwy 14

NA when local weather not received.
Category D, 800-2¼.

SIDNEY, MT

SIDNEY-RICHLAND MUNI **NDB Rwy 1**[1]
NDB Rwy 19[2]
RNAV (GPS) Rwy 1[3]
RNAV (GPS) Rwy 19[3]

NA when local weather not available.
[1]Categories A, B, 900-2; Category C, 900-2½; Category D, 900-2¾.
[2]Categories A, B, 1000-2; Category C, 1000-2¾; Category D, 1000-3.
[3]Category D, 800-2¼.

NAME ALTERNATE MINIMUMS

SPOKANE, WA

FELTS FIELD **ILS/DME Rwy 21R**[1]
RNAV (GPS)-A[2]
RNAV (GPS) Rwy 3L[2]
VOR Rwy 3L[34]
[1]Categories A,B, 1000-2;Category C, 1000-2¾.
[2]Categories A,B, 1000-2; Category C, 1000-2¾; Category D, 1000-3.
[3]Categories A, B, 1000-2; Categories C, D, 1000-3.
[4]NA when local weather not available.

SPOKANE INTL **ILS or LOC Rwy 3**[1]
ILS or LOC/DME Rwy 21[1]
RNAV (GPS) Rwy 3[2]
VOR Rwy 3[3]
[1]ILS, Category D, 700-2.
[2]Category D, 800-2¼.
[3]Category E, 800-2½.

TACOMA, WA

TACOMA NARROWS **ILS Rwy 17**[1]
NDB Rwy 35[1]
RNAV (GPS) Rwy 17[12]
RNAV (GPS) Rwy 35[23]
[1]NA when control tower closed.
[2]Category D, 800-2¼.
[3]NA when local weather not available.

THE DALLES, OR

COLUMBIA GEORGE RGNL/
THE DALLES MUNI **RNAV (GPS)-A**
Categories A,B, 1100-2; Category C, 1100-3; Category D, 1200-3.

TWIN FALLS, ID

JOSLIN FIELD-MAGIC VALLEY
RGNL **ILS or LOC Rwy 25**[1]
NDB Rwy 25
RNAV (GPS) Rwy 7
RNAV (GPS) Rwy 25
VOR Rwy 7[2]
NA when local weather not available.
[1]ILS, Category D, 700-2; Category E, 900-3. LOC, Category E, 900-3.
[2]Category C, 800-2¼; Category D, 800-2½.

NAME ALTERNATE MINIMUMS

WALLA WALLA, WA

WALLA WALLA RGNL **ILS or LOC Rwy 20**[1]
NDB Rwy 20, 1000-3
RNAV (GPS) Rwy 2[23]
RNAV (GPS) Rwy 16[2]
RNAV (GPS) Rwy 20[2]
VOR/DME Rwy 2[2]
[1]ILS,LOC, Categories A,B, 1100-2; Categories C, D, 1100-3.
[2]Category D, 800-2½.
[3]NA when local weather not available.

WENATCHEE, WA

PANGBORN
MEMORIAL **ILS Y Rwy 12,** 1300-4
VOR/DME-C[12]
VOR/DME-A[3]
[1]NA when local weather not available.
[2]Categories A, B, 1500-2; Categories C, D, 1500-3.
[3]Categories A, B, 2000-2; Categories C, D, 2000-3.

WOLF POINT, MT

L.M. CLAYTON **RNAV (GPS) Rwy 11**
RNAV (GPS) Rwy 29
NA when local weather not available.

WORLAND, WY

WORLAND MUNI **VOR or GPS Rwy 16**
Categories C,D, 800-2½.

YAKIMA, WA

YAKIMA AIR TERMINAL/
MCALLISTER FIELD **ILS Y Rwy 27**[12]
ILS Z Rwy 27[13]
LOC/DME BC-B[14]
RNAV (GPS) Y Rwy 27[5]
RNAV (GPS) Z Rwy 27[4]
VOR/DME or TACAN Rwy 27[6]
VOR-A[7]
[1]NA when control tower closed.
[2]ILS, Categories A, B, 600-2¼; Category C, 700-2¼; Category D, 800-2¼.
[3]Category C, 700-2; Category D, 800-2¼
[4]Category D, 800-2¼.
[5]Category C, 800-2½; Category D, 800-2¾.
[6]Categories A, B, 1100-2; Categories C, D, 1100-3.
[7]Category C, 800-2¼; Category D, 800-2½.

INSTRUMENT APPROACH PROCEDURE CHARTS

IFR TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

Civil Airports and Selected Military Airports

ALL USERS: Airports that have Departure Procedures (DPs) designed specifically to assist pilots in avoiding obstacles during the climb to the minimum enroute altitude , and/or airports that have civil IFR take-off minimums other than standard, are listed below. Take-off Minimums and Departure Procedures apply to all runways unless otherwise specified. Altitudes, unless otherwise indicated, are minimum altitudes in MSL.

DPs specifically designed for obstacle avoidance are referred to as Obstacle Departure Procedures (ODPs) and are described below in text, or published separately as a graphic procedure. If the (Obstacle) DP is published as a graphic procedure, its name will be listed below, and it can be found in either this volume (civil), or a separate Departure Procedure volume (military), as appropriate. Users will recognize graphic obstacle DPs by the term "(OBSTACLE)" included in the procedure title; e.g., TETON TWO (OBSTACLE). If not assigned a SID or radar vector by ATC, an ODP may be flown without ATC clearance to ensure obstacle clearance.

Graphic DPs designed by ATC to standardize traffic flows, ensure aircraft separation and enhance capacity are referred to as "Standard Instrument Departures (SIDs)". SIDs also provide obstacle clearance and are published under the appropriate airport section. ATC clearance must be received prior to flying a SID.

CIVIL USERS NOTE: Title 14 Code of Federal Regulations Part 91 prescribes standard take-off rules and establishes take-off minimums for certain operators as follows: (1) Aircraft having two engines or less - one statute mile. (2) Aircraft having more than two engines - one-half statute mile. These standard minima apply in the absence of any different minima listed below.

MILITARY USERS NOTE: Civil (nonstandard) take-off minima are published below. For military take-off minima, refer to appropriate service directives.

NAME — TAKE-OFF MINIMUMS

AFTON, WY

AFTON MUNI

DEPARTURE PROCEDURE: **Rwy 16,** Use LUNDI DEPARTURE. **Rwy 34,** use AFTON DEPARTURE.

ALBANY, OR

ALBANY MUNI

DEPARTURE PROCEDURE: **Rwy 16,** turn right. **Rwy 34**, turn left. **All aircraft** climb direct CVO VOR/DME and continue climb in CVO VOR/DME holding pattern, (E, right turns, 261° inbound) to cross CVO VOR/DME at or above 3000.

ANACONDA, MT

BOWMAN FIELD

TAKE-OFF MINIMUMS: **Rwy 4,** std. w/ min. climb of 417' per NM to 9000, or 2800-3 for climb in visual conditions. **Rwy 17,** std. w/ min. climb of 321' per NM to 10200, or 2800-3 for climb in visual conditions. **Rwy 22,** NA-obstacles. **Rwy 35,** std. w/ min. climb of 369' per NM to 9100, or 2800-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 4, 35,** climbing right turn to 10200 via heading 130° and CPN VOR/DME R-340 to CPN VOR/DME, continue climb-in-hold to 10200 (north, left turn, 166° inbound), or for climb in visual conditions, cross Bowman Field Airport at or above 7700 then proceed via CPN R-309 to CPN VOR/DME, continue climb-in-hold to 10200 (north, left turn, 166° inbound).

NAME — TAKE-OFF MINIMUMS

BOWMAN FIELD(CON'T)

Rwy 17, climbing left turn to 10200 via heading 100° and CPN VOR/DME R-335 to CPN VOR/DME, continue climb-in-hold to 10200 (north, left turn, 166° inbound), or for climb in visual conditions, cross Bowman Field Airport at or above 7700 then proceed via CPN R-309 to CPN VOR/DME, continue climb-in-hold to 10200 (north, left turn, 166° inbound).

NOTE: **Rwy 17,** multiple trees beginning 865' from departure end of runway, 243' left of centerline, up to 70' AGL/5097' MSL. Rod on hangar 570' from departure end of runway, 278' left of centerline, 54' AGL/5054' MSL. Multiple trees beginning 787' from departure end of runway, 165' right of centerline, up to 70' AGL/5098' MSL. Multiple transmission lines beginning 4602' from departure end of runway, 1664' right of centerline, 80' AGL/5159' MSL. **Rwy 35,** multiple transmission lines beginning 2242' from departure end of runway, 964' left of centerline, up to 80' AGL/5159' MSL.

ARCO, ID

ARCO-BUTTE COUNTY (AOC)

AMDT 1 08157 (FAA)

TAKE-OFF MINIMUMS: **Rwy 6,** NA - Obstacles.

DEPARTURE PROCEDURE: Use JATTS DEPARTURE.

ARLINGTON, WA

ARLINGTON MUNI

TAKE-OFF MINIMUMS: **Rwy 11,** 600-2 or std. with a min. climb of 350' per NM to 700. **Rwy 34,** 500-2 or std. with a min. climb of 260' per NM to 700.

DEPARTURE PROCEDURE: **Rwy 11,** turn right. **Rwy 16**, climb direct to WATON LOM. **Rwys 29,34**, turn left. **All aircraft** climb direct to WATON LOM. Aircraft departing WATON LOM on bearings 150° CW 200° and bearings 260° CW 340° from WATON LOM continue climb on course. Aircraft departing WATON LOM on bearings 340° CW 150° from WATON LOM climb in holding pattern (S, left turns, 339° inbound) to 4500 then continue climb on course. Aircraft departing WATON LOM on bearings 200° CW 260° from WATON LOM climb in holding pattern (S, left turns, 339° inbound) to 1500 then continue climb on course.

ASTORIA, OR

ASTORIA RGNL

TAKE-OFF MINIMUMS: **Rwy 8**, 800-3 or std. with a min. climb of 320' per NM to 900. **Rwy 13**, 700-2 or std. with a min. climb of 350' per NM to 800.

DEPARTURE PROCEDURE: **Rwys 8,31,** turn left. **Rwy 13**, climb runway heading to 800 then climbing right turn. **Rwy 26**, turn right. Aircraft departing northwestbound climb via AST R-290 on course. **All other aircraft** climb to 1500 or above via AST R-290 then left turn to AST VOR/DME and continue climbing on course.

AUBURN, WA

AUBURN MUNI

DEPARTURE PROCEDURE: Use AUBURN DEPARTURE.

AURORA, OR

AURORA STATE

DEPARTURE PROCEDURE: **Rwy 17**, turn right, thence... **Rwy 35**, turn left, thence...
...Aircraft proceeding via V23 climb on course; All others climb in UBG VOR/DME holding pattern (hold south, left turn, 003° inbound) to cross UBG VOR/DME at or above MEA/MCA for direction of flight.

NOTE: **Rwy 17,** multiple trees 31' from departure end of runway, 273' right of centerline, up to 90' AGL/270' MSL. Multiple trees beginning 979' from departure end of runway, 247' right of centerline up to 113' AGL/316' MSL. Road 254' from departure end of runway, 350' left of centerline, 16' AGL/209' MSL. **Rwy 35,** multiple trees and road beginning 31' from departure end of runway, 163' left of centerline, up to 138' AGL/329' MSL. Multiple trees beginning 973' from departure end of runway, 281' right of centerline, up to 58' AGL/253' MSL.

BAKER, MT

BAKER MUNI

NOTE: **Rwy 13,** 51' derrick 2200' from departure end of runway on centerline. 100' trees south of airport, near runway, various locations. **Rwy 31,** 146' antenna on tower 4000' from departure end of runway, 1800' left of centerline. 114' rod on OL antenna 3800' from departure end of runway on centerline.

BAKER CITY ,OR

BAKER CITY MUNI

TAKE-OFF MINIMUMS: **Rwy 8**, 900-2 or std. with a min. climb of 315' per NM to 6000, (788' per min. at 150K, 1050' per min. at 200K, 1313' per min. at 250K). **Rwy 13**, 1400-2 or std. with a min. climb of 310' per NM to 6000 (775' per min. at 150K, 1033' per min. at 200K, 1292' per min. at 250K). **Rwy 17**, NA. **Rwy 31**, 1300-2 or std. with a min. climb of 240' per NM to 6000 (600' per min. at 150K, 800' per min. at 200K, 1000' per min. at 250K). **Rwy 35**, CAT C,D 1000-2; or std. with a min. climb of 240' per NM to 6000 (600' per min. at 150K, 800' per min. at 200K, 1000' per min. at 250K).

DEPARTURE PROCEDURE: **Rwys 8,13**, turn left. **Rwys 26,31,35,** turn right. **All aircraft** climb direct BKE VOR/DME. Continue climb in BKE holding pattern (SE, right turns, 298° inbound) to cross BKE VOR/DME at or above MCA or MEA for route of flight.

BELLINGHAM, WA

BELLINGHAM INTL

DEPARTURE PROCEDURE: **Rwy 16,** climb heading 160° to 600, then climbing right turn direct HUH VORTAC. Do not exceed 210 KIAS until established northbound. **Rwy 34,** climb heading 340° to 600, then climbing left turn to intercept HUH R-145 to HUH VORTAC, continue climb in holding pattern (northwest, right turn, 149° inbound) to MEA as appropriate for direction of flight.

NOTE: **Rwy 16,** lighted windsock 9' from departure end of runway, 259' right of centerline, 16' AGL/181' MSL. Multiple trees beginning 747' from departure end of runway, 405' right of centerline, up to 68' AGL/213' MSL. Multiple trees beginning 1128' from departure end of runway, 57' left of centerline, up to 104' AGL/249' MSL. **Rwy 34,** lighted windsock 93' from departure end of runway, 516' right of centerline, 27' AGL/169' MSL. multiple trees beginning 1372' from departure end of runway, 619' right of centerline, up to 134' AGL/246' MSL.

BEND, OR

BEND MUNI (BDN)
AMDT 4 09183 (FAA)

DEPARTURE PROCEDURE: Use BEND DEPARTURE.

BIG PINEY, WY

MILEY MEMORIAL FIELD

TAKE-OFF MINIMUMS: **Rwys 8,26,** NA.

DEPARTURE PROCEDURE: **Rwy 13,** climb to 8400 via BPI R-124. **Rwy 31,** climb to 10800 via BPI R-320 thence all aircraft climb on course.

BILLINGS, MT

BILLINGS LOGAN INTL (BIL)
AMDT 5 08101 (FAA)

TAKE-OFF MINIMUMS: **Rwy 10R,** NA- Obstacles.

DEPARTURE PROCEDURE: **Rwy 10L,** Climb heading 098° to 4600 before turning right.

NOTE: **Rwy 10L,** fence 466' from departure end of runway, 535' right of centerline, 11' AGL/3511' MSL, cars on road, beginning from 624' from departure end of runway, 427' right of centerline, 15' AGL/3523' MSL, ground beginning 21' from departure end of runway, 499' right of centerline, 0' AGL/3505' MSL. **Rwy 25,** airport security fence, abeam departure end of runway, 500' left of centerline, 11' AGL/3672' MSL to 1200' from departure end of runway, abeam rwy centerline, 11' AGL/3672' MSL.

BLACKFOOT, ID

MCCARLEY FIELD

DEPARTURE PROCEDURE: **Rwy 1,** climb to 7000 (or higher assigned altitude) direct IDA VOR/DME, before proceeding on course. **Rwy 19,** climb to 7000 (or higher assigned altitude) direct PIH VORTAC, before proceeding on course.

BOISE, ID

BOISE AIR TERMINAL / GOWEN FIELD (BOI)
AMDT 6 10042 (FAA)

DEPARTURE PROCEDURE: Use GOWEN DEPARTURE.

BOZEMAN,MT

GALLATIN FIELD (BZN)
AMDT 3 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwys 3, 21**, NA-ATC.

DEPARTURE PROCEDURE: **Rwys 12, 30,** use BOZEMAN DEPARTURE.

BREMERTON,WA

BREMERTON NATIONAL (PWT)
AMDT 3 08045 (FAA)

TAKE-OFF MINIMUMS: **Rwy 1,** 300-1 or std. w/ min. climb of 410' per NM to 700.

DEPARTURE PROCEDURE: **Rwy 1,** Climbing right turn to 6000 direct CAN NDB, Thence...**Rwy 19,** Climb to 6000 direct CAN NDB, thence...

...Continue climb-in-hold (S, LT, 013° inbound) to 6000 before proceeding on course.

NOTES: **Rwy 1,** Multiple bushes 380' from departure end of runway, 522' left of centerline, up to 17' AGL/456' MSL, multiple trees and poles beginning 1210' from departure end of runway, 622' left of centerline, up to 100' AGL/561' MSL, multiple trees and bushes 1012' from departure end of runway, 708' right of centerline, up to 100' AGL/495' MSL. **Rwy 19,** Multiple trees beginning 176' from departure end of runway, 337' left of centerline, up to 100' AGL/514' MSL, multiple trees beginning 371' from departure end of runway, 277' right of centerline, up to 100' AGL/548' MSL.

BUFFALO,WY

JOHNSON COUNTY

TAKE-OFF MINIMUMS: Northbound aircraft: **Rwys 13,31,** 2400-2 or std. with a min. climb of 300' per NM to 7500. Southbound aircraft: **Rwy 31**, 400-2 or std. with a min climb of 300' per NM to 6000.

DEPARTURE PROCEDURE: Northbound aircraft: **Rwy 13**, turn left. **Rwy 31,** climb straight ahead. **All aircraft** proceed via SHR R-139 to SHR VORTAC. Southbound aircraft: **Rwy 13,** climb straight ahead. **Rwy 31,** turn right. **All aircraft** proceed via CZI R-319 to CZI VOR/DME.

BURLEY, ID

BURLEY MUNI (BYI)
AMDT 5 10042 (FAA)

TAKE-OFF MINIMUMS: **Rwy 24,** 300-1½ or std. w/ min. climb of 428' per NM to 4500.

DEPARTURE PROCEDURE: **Rwy 2,** climbing left turn direct BYI VOR/DME, continue climb in BYI VOR/DME holding pattern (hold Northwest right turns, 125° inbound) to cross BYI VOR/DME at or above MEA for route of flight. **Rwy 6,** climbing left turn direct BYI VOR/DME, continue climb in BYI VOR/DME holding pattern (hold Northwest right turns, 125° inbound) to cross BYI VOR/DME at or above MEA for route of flight. **Rwy 20,** climbing right turn direct BYI VOR/DME, continue climb in BYI VOR/DME holding pattern (hold Northwest right turns, 125° inbound) to cross BYI VOR/DME at or above MEA for route of flight. **Rwy 24,** climbing right turn direct BYI VOR/DME, continue climb in BYI VOR/DME holding pattern (hold Northwest right turns, 125° inbound) to cross BYI VOR/DME at or above MEA for route of flight.

NOTE: **Rwy 2,** obstruction light on bridge 252' from DER, 513' left of centerline, 57' AGL/4195' MSL. Trees beginning 686' from DER, 201' right of centerline, up to 35' AGL/4184' MSL. Tree 694' from DER, 375' left of centerline, 29' AGL/4178' MSL. Obstruction light on building 736' from DER, 188' left of centerline, 11' AGL/4161' MSL. Tower 803' from DER, 590' left of centerline, 55' AGL/4204' MSL. Vehicles on road beginning 857' from DER, 1' right of centerline, up to 17' AGL/4168' MSL. Poles beginning 1226' from DER, 549' left of centerline, up to 72' AGL/4222' MSL. Building vent 1240' from DER, 164' left of centerline, 27' AGL/4177' MSL. Stack 2206' from DER, 856' right of centerline, 86' AGL/4236' MSL. Stack 2573' from DER, 614' left of centerline, 86' AGL/4236' MSL. Elevators beginning 3980' from DER, 131' right of centerline, up to 133' AGL/4283' MSL. **Rwy 6,** trees beginning 46' from DER, 172' right of centerline, up to 14' AGL/4163' MSL. Rising terrain beginning 49' from DER, 326' right of centerline, up to 4149' MSL. Bush 150' from DER, 103' right of centerline, 5' AGL/4147' MSL. Antenna 586' from DER, 398' left of centerline, 15' AGL/4165' MSL. Obstruction light on bridge 1061' from DER, 80' right of centerline, 39' AGL/4179' MSL.

BURLEY MUNI (BYI) (CON'T)

Rwy 20, obstruction light pole 42' from DER, 124' left of centerline,16' AGL/4170' MSL. Railroad beginning 65' from DER, 4' left of centerline, up to 23' AGL/4177' MSL. Sign 181' from DER, 121' right of centerline, 18' AGL/ 4172' MSL. Vehicles on road 162' from DER, 2' left of centerline, 17'AGL/4169' MSL. Vehicles on road beginning 335' from DER 348' right of centerline up to 17' AGL/4171' MSL. Pole 446' from DER, 210' right of centerline, 26' AGL/4180' MSL. Antenna 523' from DER, 337' right of centerline, 63' AGL/4217' MSL. Tree 586' from DER, 213' right of centerline, 28' AGL/4182' MSL. Trees beginning 2014' from DER, 339' left of centerline, up to 96' AGL/4251' MSL.

Rwy 24, vehicles on road beginning 25' from DER, 9' left of centerline, up to 15' AGL/4169' MSL. Fence 58' from DER, 8' left of centerline, 4' AGL/4154' MSL. Rising terrain beginning 69' from DER, 201' right of centerline, up to 4154' MSL. Railroad 152' from DER, 6' left of centerline, 23' AGL/4176' MSL. Trees beginning 427' from DER, 101' right of centerline, up to 69' AGL/4223' MSL. Vehicles on road beginning 509' from DER, 586' right of centerline, up to 15' AGL/4169' MSL. Railroad beginning 568' from DER, 288' right of centerline, up to 23' AGL/4177' MSL. Pole 735' from DER, 185' left of centerline, 18' AGL/4172' MSL. Light standard 824' from DER, 58' right of centerline, 23' AGL/4177' MSL. Antenna 1630' from DER, 112' left of centerline, 58' AGL/4212' MSL. Tower 2766' from DER, 175' left of centerline,123' AGL/4282' MSL. Tower 3570' from DER, 158' right of centerline, 157' AGL/4312' MSL. Obstruction light on elevators beginning 3115' from DER, 164' left of centerline, up to 184' AGL/4344' MSL.

BURLINGTON/MOUNT VERNON, WA

SKAGIT RGNL (BVS)

ORIG-A 08297 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4,** 3000-2 or std. with a min. climb of 340' per NM to 3600. **Rwy 10**, 1700-2 or std. with a min. climb of 245' per NM to 2300. **Rwy 22**, 1300-2 or std. with a min. climb of 210' per NM to 1800.

DEPARTURE PROCEDURE: **Rwys 4,10,22**, turn right heading 280°. **Rwy 28**, climb runway heading.

All aircraft climb to 2500 then turn right direct BVS NDB to cross BVS at or above 4500. Aircraft departing on BVS R-145 CW R-330 climb on course. All others continue climbing in BVS holding pattern (NW, right turns 113° inbound) to cross BVS at or above 6800 before proceeding on course.

NOTE: **Rwy 4,** tree 2581' from departure end of runway, 426' left of centerline, 100' AGL/212' MSL. Light pole 1489' from departure end of runway, 136' left of centerline 35' AGL/137' MSL. Bush 126' from departure end of runway, 430' right of centerline, 20' AGL/101' MSL. Building 2925' from departure end of runway, 130' left of centerline, 60' AGL/180' MSL.

BURNS, OR

BURNS MUNI

DEPARTURE PROCEDURE: **Rwy 3,** climbing right turn, thence... **Rwy 12**, climb to 4600 via heading 117°, thence... **Rwys 21, 30,** climbing left turn, thence... ...All aircraft departing on ILR R-072 CW R-209, climb on course. All others climb on ILR R-123 within 10 NM to cross ILR VOR/DME at or above 5000.

NOTE: **Rwy 21,** pole 820' from departure end of runway, 357' left of centerline, 20' AGL/4169' MSL.

BUTTE, MT

BERT MOONEY

TAKE-OFF MINIMUMS: **Rwy 11**, NA-obstacles. **Rwy 15,** std. w/ min. climb of 601' per NM to 7300, or 3300-3 for climb in visual conditions. **Rwy 29,** std. w/ min. climb of 832' per NM to 6700, or 3300-3 for climb in visual conditions. **Rwy 33,** std. w/ min. clim b of 355' per NM to 6800, or 3300-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 15,** climbing right turn direct CPN VOR/DME, or for climb in visual conditions: Cross Bert Mooney Airport westbound at or above 8800 then proceed direct CPN VOR/DME, thence. . .**Rwy 29,** climb heading 293° to intercept CPN VOR/DME R-082 to CPN VOR/DME, or for climb in visual conditions: Cross Bert Mooney Airport westbound at or above 8800 then proceed direct CPN VOR/DME, thence. . . **Rwy 33,** climb direct CPN VOR/DME, or for climb in visual condtions: Cross Bert Mooney Airport westbound at or above 8800 then proceed direct CPN VOR/DME, thence. . .

. . .climb in CPN VOR/DME holding pattern (hold north, left turn, 166° inbound) to cross CPN VOR/DME at or above MEA before proceeding enroute.

NOTE: **Rwy 15,** multiple trees beginning 2 NM from departure end of runway, 1779' right of centerline, up to 100' AGL/6659' MSL. Tree 2.1 NM from departure end of runway, 66' left of centerline, 100' AGL/5934' MSL. **Rwy 29,** multiple trees and poles beginning 364' from departure end of runway, 7' right of centerline, up to 100' AGL/5621' MSL. Multiple trees and lights beginning 322' left of centerline, up to 100' AGL/5582' MSL. Terrain and numerous trees beginning 1.2 NM from departure end of runway, 1022' left of centerline, up to 100' AGL/6 379' MSL. **Rwy 33,** flag pole 1095' from departure end of runway, 730' left of centerline, 64' AGL/ 5583' MSL.

CALDWELL, ID

CALDWELL INDUSTRIAL

TAKE-OFF MINIMUMS: **Rwy 12,** std. with a min. climb of 300' per NM to 5600, or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 12,** climb via heading 119° to 5600 before proceeding on course. For climb in visual conditions: Cross Caldwell Industrial Airport at or above 4800 before proceeding on course. **Rwy 30,** climb via heading 299° to 4400 before proceeding on course.

NOTE: **Rwy 12,** levee 198' from departure end of runway, 281' left of centerline, 0' AGL/2451' MSL. Multiple trees 1462' from departure end of runway, 877' right of centerline, up to 100' AGL/2505' MSL. **Rwy 30,** multiple poles 206' from departure end of runway, 389' right of centerline, up to 39' AGL/2457' MSL. Rod 353' from departure end of runway, 246' right of centerline, 21' AGL/2439' MSL.

CASPER, WY

CASPER/NATRONA COUNTY INTL (CPR)

AMDT 3A 09155 (FAA)

DEPARTURE PROCEDURE: **Rwys 3,8,12**, turn left. **All other runways,** turn right. **All aircraft** climb direct DDY VORTAC before proceeding on course, or comply with published Casper SIDs.

CHEHALIS, WA

CHEHALIS-CENTRALIA

DEPARTURE PROCEDURE: **Rwy 16,** climb to 1000 via heading 160° then climbing left turn to 4000 via heading 001° and OLM R-151 to OLM VORTAC before proceeding on course. **Rwy 34,** climb to 4000 via heading 340° and OLM R-176 to OLM VORTAC before proceeding on course.

CHEYENNE, WY

CHEYENNE RGNL/JERRY OLSON FIELD

NOTE: **Rwy 13,** multiple trees beginning 74' from departure end of runway, 115' left of centerline, up to 40' AGL/6166' MSL. Multiple trees, pole, and fence beginning 34' from departure end of runway, 167' right of centerline, up to 40' AGL/6154' MSL. **Rwy 27,** multiple trees and poles beginning 525' from departure end of runway, 271' left of centerline, up to 40' AGL/6216' MSL. Multiple trees and poles beginning 1222' from departure end of runway, 275' right of centerline, up to 40' AGL/6211' MSL. **Rwy 31.** multiple trees, road, fence and sign beginning 196' from departure end of runway, 76' left of centerline, up to 40' AGL/6238' MSL. Multiple poles and sign beginning 407' from departure end of runway, 8' left of centerline, up to 69' AGL/6229' MSL.

CODY, WY

YELLOWSTONE RGNL (COD)

AMDT 4 10042 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4,** std. with a min. climb of 400' per NM to 8000' or 4200-3 for climb in visual conditions. **Rwy 22,** std. with a min. climb of 385' per NM to 7400' or 4200-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 4,** climb heading 038° to 5900, then climbing left turn via COD R-171 to COD VOR/DME or for climb in visual conditions to cross Yellowstone Rgnl at or above 9400, then via COD R-189 to COD VOR/DME to cross COD VOR/DME at or above MEA for route of flight. **Rwy 22,** climb heading 218° to 6600, then climbing left turn via COD R-180 to COD VOR/DME or for climb in visual conditions to cross Yellowstone Rgnl at or above 9400, then via COD R-189 to COD VOR/DME to cross COD VOR/DME at or above MEA for route of flight.

NOTE: **Rwy 4,** trees beginning 100' from DER, 262' right of centerline, up to 79' AGL/5199' MSL. Rising terrain beginning 1723' from DER, 304' right of centerline, up to 5146' MSL. **Rwy 22,** poles beginning 1 NM from DER, 406' right of centerline, up to 60' AGL/5332' MSL. Rising terrain beginning 1 NM from DER, 109' right of centerline, up to 6235' MSL. Rising terrain beginning 5074' from DER, 131' left of centerline, up to 5428' MSL.

COEUR D'ALENE, ID

COEUR D'ALENE-PAPPY BOYINGTON FIELD (COE)

AMDT 9 10042 (FAA)

DEPARTURE PROCEDURE: use COEUR D'ALENE DEPARTURE.

COLSTRIP, MT

COLSTRIP (M46)

AMDT 2 08157 (FAA)

TAKE-OFF MINIMUMS: **Rwy 6** use CISPU (RNAV) DEPARTURE. **Rwy 24,** use CONUK (RNAV) DEPARTURE.

CONRAD, MT

CONRAD

DEPARTURE PROCEDURE: **Rwy 24,** climb runway heading to 4300, then continue climb on course.

CORVALLIS, OR

CORVALLIS MUNI

TAKE-OFF MINIMUMS: **Rwys 9, 17, 35,** std. with a min. climb of 290' per NM to 3100 or 1700-3 for climb in visual conditions. **Rwy 27,** std. with a min. climb of 310' per NM to 3100 or 1700-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 9, 17,** climbing left turn direct CVO VOR/DME, thence...or, climb in visual conditions to cross CVO VOR/DME at or above 3400. **Rwys 27, 35,** climbing right turn direct CVO VOR/DME, thence...or, climb in visual conditions to cross CVO VOR/DME at or above 3400.

...climb in CVO VOR/DME holding pattern (E, RT, 261° inbound) to depart at or above 3400.

NOTE: **Rwy 9,** multiple trees and railroad beginning 549' from departure end of runway, 254' left of centerline, up to 153' AGL/383' MSL. Multiple trees and railroad beginning 670' from departure end of runway, 5' right of centerline, up to 135' AGL/380' MSL. **Rwy 27,** obstruction light on glideslope 409' from departure end of runway, 325' left of centerline, 28' AGL/273' MSL. **Rwy 35,** multiple trees beginning 470' from departure end of runway, 544' left of centerline up to 36' AGL/276' MSL.

COWLEY/LOVELL/BYRON, WY

NORTH BIG HORN COUNTY

DEPARTURE PROCEDURE: **Rwys 9, 27**, aircraft departing via HCY NDB bearings 130° CW 225° climb on course, all others climb in HCY NDB holding pattern (W, right turns, 078° inbound) to cross HCY NDB at or above 9000.

DEER PARK, WA

DEER PARK (DEW)

AMDT 1 10098 (FAA)

TAKE-OFF MINIMUMS: **Rwy 34,** 300-1½ or std. with a min. climb of 455' per NM to 2500.

DEPARTURE PROCEDURE: **Rwy 4,** climbing right turn heading 165° and GEG VORTAC R-006 to GEG VORTAC. **Rwy 16,** climb heading 164° and GEG VORTAC R-006 to GEG VORTAC. **Rwy 22,** climbing left turn heading 155° and GEG VORTAC R-006 to GEG VORTAC. **Rwy 34,** climbing right turn heading 165° and GEG VORTAC R-006 to GEG VORTAC.

NOTE: **Rwy 4,** aircraft 261' from DER, 511' left of centerline, up to 21' AGL/2210' MSL. Trees beginning 1809' from DER, 413' left of centerline, up to 109' AGL/2299' MSL. Aircraft 104' from DER, 186' right of centerline, up to 21' AGL/2200' MSL. Trees beginning 1667' from DER, 373' right of centerline, up to 116' AGL/2319' MSL. **Rwy 16,** trees beginning 31' from DER, 455' left of centerline, up to 109' AGL/2279' MSL. Trees beginning 2587' from DER, 621' right of centerline, up to 104' AGL/2264' MSL. **Rwy 22,** trees beginning 1461' from DER, 211' right of centerline, up to 90' AGL/2270' MSL. **Rwy 34,** aircraft 23' from DER, 218' left of centerline, up to 21' AGL/2230' MSL. Trees beginning 2678' from DER, 18' left of centerline, up to 165' AGL/2375' MSL. Vehicles beginning 74' from DER, 339' right of centerline, up to 15' AGL/2234' MSL. Trees beginning 2219' from DER, 260' right of centerline, up to 100' AGL/2382' MSL.

DILLON, MT

DILLON

TAKE-OFF MINIMUMS: **Rwys 3,21,** NA.

DEPARTURE PROCEDURE: **Rwys 16,34**, turn right, climb in DLN VOR/DME holding pattern (N, right turns, 185° inbound) to cross DLN VOR/DME at or above; northwestbound V257 8500; southwestbound V121 8500; northbound V21 7600; southeastbound V21,V257 9400.

DOUGLAS, WY

CONVERSE COUNTY

TAKE-OFF MINIMUMS: **Rwy 5,** 300-2 or std. with a min. climb of 250' per NM to 5200. **Rwy 23,** 1700-3 or std. with a min. climb of 260' per NM to 7200.

DEPARTURE PROCEDURE: **Rwy 5,** climbing right turn via IIP VOR/DME R-342 to IIP VOR/DME. **Rwy 11,** climbing right turn via IIP VOR/DME R-312 to IIP VOR/DME. **Rwy 23,** climbing left turn via IIP VOR/DME R-264 to IIP VOR/DME. **Rwy 29,** climbing right turn via IIP VOR/DME R-325 to IIP VOR/DME. **All aircraft** departing IIP R-253 CW R-180 climb on course. All others continue climb in IIP VOR/DME holding pattern (NW, left turns, 125° inbound) to cross IIP VOR/DME at or above: R-181 CW R-199 9600; R-200 CW R-252 8000.

NOTE: **Rwy 5,** trees 1883' from departure end of runway, 549' right of centerline, 35' AGL/5014' MSL. Trees 3407' from departure end of runway, 209' right of centerline, 35' AGL/5074' MSL. Trees 5458' from departure end of runway, 1954' right of centerline, 35' AGL/5132' MSL. **Rwy 23,** trees 2068' from departure end of runway, 1008' left of centerline, 35' AGL/4994' MSL. Trees 3130' from departure end of runway, 1215' left of centerline, 35' AGL/5014' MSL.

DRIGGS, ID

DRIGGS-REED MEMORIAL (DIJ)

AMDT 2 08157 (FAA)

DEPARTURE PROCEDURE: Use LAMON DEPARTURE.

EASTSOUND, WA

ORCAS ISLAND (ORS)

AMDT 1 09351 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16,** NA-Terrain. **Rwy 34,** 500-3 or std. w/ min. climb of 224' per NM to 600.

DEPARTURE PROCEDURE: **Rwy 34,** climbing right turn to 2000 to intercept HUH VORTAC R-210 to HUH VORTAC, then climb-in-hold (hold South, Left turns, 352° inbound) to cross HUH VORTAC at or above 3800 before proceeding on course.

NOTE: **Rwy 34,** trees beginning 330' from DER, 411' left of centerline, up to 120' AGL/139' MSL.

ELLENSBURG, WA

BOWERS FIELD

TAKE-OFF MINIMUMS: **Rwys 7,11,** 4600-3 or std. with a min. climb of 290' per NM to 7800. **Rwy 25,** 4700-3 or std. with a min. climb of 340' per NM to 7800. **Rwy 29,** 4600-3 or std. with a min. climb of 320' per NM to 7800.

DEPARTURE PROCEDURE: **Rwys 7, 29,** climbing right turn direct ELN VORTAC. **Rwys 11, 25,** climbing left turn direct ELN VORTAC. **All aircraft,** continue climbing in the ELN VORTAC holding pattern (W, right turns, 087° inbound) to MEA/MOCA for route of flight.

EPHRATA, WA

EPHRATA MUNI (EPH)

AMDT 3 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwy 29,** NA-Obstacles.

DEPARTURE PROCEDURE: **Rwy 3,** climb heading 027° to 2300 before proceeding on course. **Rwy 11,** climb heading 112° to 2200 before proceeding on course. **Rwy 21,** climb heading 207° to 2800 before proceeding on course.

EUGENE, OR

MAHLON SWEET FIELD

DEPARTURE PROCEDURE: **Rwys 16L, 16R,** climb to 1000 then climbing right turn...**Rwys 34L, 34R,** climb to 1000 then climbing left turn...

...all aircraft climb direct EUG VORTAC, then climb in EUG VORTAC holding pattern (hold north, right turn, 175° inbound) to cross EUG VORTAC at or above MEA altitude before proceeding enroute.

NOTE: **Rwy 16R,** tree 1992' from departure end of runway, 832' left of centerline, 50' AGL/419' MSL. **Rwy 16L,** multiple trees and power poles beginning 872' from departure end of runway, 35' right of centerline, up to 50' AGL/437' MSL, multiple trees and power poles beginning 890' from departure end of runway, 77' left of centerline, up to 50' AGL/433' MSL. **Rwy 34R,** multiple trees beginning 2869' from departure end of runway, 186' right of centerline, up to 50' AGL/447' MSL. Tree 2535' from departure end of runway, 652' left of centerline, 50' AGL/428' MSL.

EVANSTON, WY

EVANSTON-UINTA COUNTY BURNS FIELD

DEPARTURE PROCEDURE: **Rwy 5**, climb via heading 050° and FBR VOR/DME R-243 to FBR VOR/DME. **Rwy 23**, climbing left turn via heading 030° and FBR VOR/DME R-243 to FBR VOR/DME.

All aircraft: cross FBR VOR/DME at or above MEA for direction of flight.

EVERETT, WA

SNOHOMISH COUNTY (PAINE FIELD)

TAKE-OFF MINIMUMS: **Rwy 29,** std. with a min. climb of 353' per NM to 800.

DEPARTURE PROCEDURE: **Rwys 11, 16L/R,** climbing right turn, thence...**Rwys 29, 34L/R,** climbing left turn, thence...

...for aircraft departing via V287 west bound, climb via PAE VOR/DME R-236 to 3000. All others, climb direct PAE VOR/DME, climb in PAE VOR/DME holding pattern (NW, RT, 149° inbound) to MEA for route of flight before proceeding on course.

NOTE: **Rwy 11,** multiple antennas on building, rod on obstruction light, and trees beginning 326' from departure end of runway, 387' right of centerline, up to 85' AGL/664' MSL. Tree 1156' from departure end of runway, 600' left of centerline, 93' AGL/672' MSL. **Rwy 16L,** multiple trees and pole beginning 588' from departure end of runway, 220' left of centerline, up to 118' AGL/697' MSL. Multiple trees, pole, and building beginning 449' from departure end of runway, 162' right of centerline, up to 78' AGL/657' MSL. **Rwy 16R,** multiple trees beginning 1228' from departure end of runway, 168' left of centerline, up to 140' AGL/699' MSL. Multiple trees beginning 707' from departure end of runway, 158' right of centerline, up to 118' AGL/687' MSL. **Rwy 29,** multiple trees beginning 45' from departure end of runway, 66' left of centerline, up to 111' AGL/630' MSL. Multiple trees beginning 343' from departure end of runway, 44' right of centerline, up to 110' AGL/689' MSL. **Rwy 34R,** multiple trees and pole beginning 3340' from departure end of runway, 180' right of centerline, up to 95' AGL/674' MSL. Tree 5762' from departure end of runway, 221' left of centerline, 103' AGL/682' MSL.

FAIRCHILD AFB (KSKA)

SPOKANE, WA ORIG, 08017

DEPARTURE PROCEDURES: **Rwy 5**, climb on track 048° to intercept SKA R-045 to 5300, then on course. **Rwy 23**, climb on track 241° to 3400, then on course.

TAKE-OFF OBSTACLES: **Rwy 23**, Terrain 2468' MSL, 194' from DER, 405' right of centerline. Terrain 2477' MSL, 461' from DER, 751' right of centerline. Terrain 2477' MSL, 509' from DER, 750' right of centerline.

FORT BENTON, MT

FORT BENTON

TAKE-OFF MINIMUMS: **Rwys 5, 23,** std. w/ min. climb of 274' per NM to 8900 or 5100-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 5, 23,** for climb in visual conditions: Cross Fort Benton Airport at or above 8900 MSL before proceeding on course.

FORT BRIDGER, WY

FORT BRIDGER

DEPARTURE PROCEDURE: **All aircraft** climb direct FBR VOR/DME. Aircraft departing; FBR R-210 CW R-135 climb on course; FBR R-136 CW R-209 cross FBR VOR/DME at or above 9000. (Hold NE, right turns, 215° inbound).

FRIDAY HARBOR, WA

FRIDAY HARBOR

TAKE-OFF MINIMUMS: **Rwy 34,** 500-1.

DEPARTURE PROCEDURE: Aircraft departing FHR NDB **Rwy 34,** climbing right turn direct FHR NDB, then climb on course. All other aircraft climb on course.

GILLETTE, WY

GILLETTE-CAMPBELL COUNTY (GCC)

AMDT 4 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16,** std. w/ min. climb of 275' per NM to 5600, or 1200-3 for climb in visual conditions. **Rwy 21,** 600-3 or std. w/ min. climb of 425' per NM to 5200.

DEPARTURE PROCEDURE: **Rwy 16,** climb via heading 158° to 5100, before proceeding on course or, for climb in visual conditions cross Gillette-Campbell County airport at or above 5400 before proceeding on course. **Rwy 21,** climb via heading 206° to 5200, before proceeding on course.

NOTE: **Rwy 3,** windsock 1415' from DER, 100' left of centerline, 24' AGL/4366' MSL. Trees beginning 1976' from DER, 267' right of centerline, up to 30' AGL/4409' MSL. **Rwy 16,** tower and poles beginning 1.61 NM from DER, 1264' left of centerline, up to 57' AGL/4696' MSL. Post and trees beginning 1.77 NM from DER, 300' right of centerline, up to 51' AGL/4789' MSL. **Rwy 21,** fence 328' from DER, 267' left of centerline, 7' AGL/4352' MSL, trees 2077' from DER, 1011' right of centerline, 30' AGL/4449' MSL, tree 7029' from DER, 2378' right of centerline, 30 ' AGL/4729' MSL. **Rwy 34,** fence 1236' from DER, 723' left of centerline, 16' AGL/4380' MSL. Vehicle on road 1609' from DER, 419' left of centerline, 15' AGL/4394 ' MSL. Trees 3093' from DER, 936' right of centerline, 30' AGL/4449 ' MSL. Vehicle on road 1610' from DER. 419' left of centerline, 15' AGL/4380' MSL.

GOODING, ID

GOODING MUNI (GNG)

ORIG 08269 (FAA)

DEPARTURE PROCEDURE: **Rwy 7,** climb heading 068° to 5000 before turning left. **Rwy 25,** climb heading 233° to 5600 before turning right.

NOTE: **Rwy 7,** rising terrain 59' from departure end of runway, 479' right of centerline, up to 3754' MSL. Fence line 653' from departure end of runway, 332' right of centerline, 12' AGL up to 3751' MSL. Bushes starting 877' from departure end of runway, 420' right of centerline, 20' AGL up to 3795' MSL. **Rwy 25,** vehicle on road, 91' from departure end of runway, 257' left of centerline, up to 10' AGL/3678' MSL.

GRANGEVILLE, ID

IDAHO COUNTY (S80)
AMDT 1 08157 (FAA)

TAKE-OFF MINIMUMS: **Rwy 7,** NA - Obstacles.
DEPARTURE PROCEDURE: **Rwy 25,** Use MELLR DEPARTURE.

GRANTS PASS, OR

GRANTS PASS

TAKE-OFF MINIMUMS: **Rwy 12,** NA. **Rwy 30,** 4000-3 or std. with a min. climb of 360' per NM to 5000.
DEPARTURE PROCEDURE: **Rwy 30,** climb via heading 320 until passing 5000, then climbing right turn direct RBG VOR/DME. Cross RBG VOR/DME at or above MEA for route of flight.

GRAY AAF (KGRF)

FORT LEWIS, WA AMDT 2, 10098

Rwy 15, Standard
Rwy 33, 300-1*
* Or standard with minimum climb of 430/NM to 600.
DEPARTURE PROCEDURE: **Rwy 15,** Climb heading 147° to 700 then climbing left turn direct GRF NDB. **Rwy 33,** Climb direct GRF NDB. Aircraft departing 330° CW 070° and 135° CW 260° bearing from GRF NDB climb on course. All others continue climb in GRF NDB holding pattern (hold NW, RT, 147° inbound) to cross GRF NDB at or above: 071° CW 134° bearing from GRF NDB, 8500; 261° CW 329° bearing from GRF NDB, 1500.
TAKE-OFF OBSTACLES: **Rwy 15,** Tree 100' AGL/ 439' MSL, 1848' from DER, 430' right of centerline. **Rwy 33,** Tree 100' AGL/479' MSL, 3465' from DER, 1338' left of centerline.

GREAT FALLS, MT

GREAT FALLS INTL

NOTE: **Rwy 7,** obstruction light on lighted wind sock 237' from departure end of runway, 519' left of centerline, 34' AGL/3694' MSL. Obstruction light on building 2226' from departure end of runway, 614' left of centerline, 78' AGL/3738' MSL. Building on 681' from departure end of runway, 583' right of centerline, 48' AGL/3688' MSL. Multiple light poles beginning 1359' from departure end of runway, 440' right of centerline, up to 90' AGL/3746' MSL. **Rwy 21,** pole 1544' from departure end of runway, 791' left of centerline, 45' AGL/3725' MSL. **Rwy 25,** windmill 2.3 NM from departure end of runway, 4197' right of centerline, 338' AGL/4003' MSL.

GREYBULL, WY

SOUTH BIG HORN COUNTY (GEY)
ORIG-A 09239 (FA)

TAKE-OFF MINIMUMS: **Rwy 25,** 300-1 or std. w/ min. climb of 260' per NM to 4200.
DEPARTURE PROCEDURE: **All runways**, for departures on GEY bearings 320° CW 150°, climb in GEY NDB holding pattern to 9000 before departing on course, then continue climb to MEA or assigned altitude. Departures GEY bearings 150° CW 320° climb on course.
NOTE: **Rwy 25,** bush 4955' from DER, 1268' right of centerline, 2' AGL/4101' MSL.

GUERNSEY, WY

CAMP GUERNSEY

TAKE-OFF MINIMUMS: **Rwy 14,** 300-1 or std. with a min. climb of 320' per NM to 4700. **Rwy 32,** 1400-2 or std. with a min. climb of 320' per NM to 5800.
DEPARTURE PROCEDURE: **Rwy 14,** climb to 5600 via heading 150°. **Rwy 32,** climb to 5800 via heading 070°. **All aircraft** continue on course.

HAILEY, ID

FRIEDMAN MEMORIAL

TAKE-OFF MINIMUMS: **Rwy 13,** 2700-3 w/ min. climb of 307' per NM to 6400, or 3600-3 for climb in visual conditions. **Rwy 31,** NA-obstacles.
DEPARTURE PROCEDURE: **Rwy 13,** Climbing right turn heading 149°, then on 160° course to HLE NDB, or for climb in visual conditions: cross Friedman Memorial Airport at or above 8800 heading 151°, then on 151° course to HLE NDB.
NOTE: **Rwy 13,** multiple trees beginning 763' from departure end of runway, 3' right of centerline, up to 100' AGL/5345' MSL. Multiple trees beginning 1.3 NM from departure end of runway, 2587' right of centerline, up to 100' AGL/6099' MSL.

HAMILTON, MT

RAVALLI COUNTY

DEPARTURE PROCEDURE: Use HAMEY RNAV DEPARTURE.

HAVRE,MT

HAVRE CITY-COUNTY (HVR)
AMDT 3 09351 (FAA)

TAKE-OFF MINIMUMS: **Rwy 8,** 300-1¾ or std. w/ min. climb of 217' per NM to 3300.
DEPARTURE PROCEDURE: **Rwy 3,** climb heading 032° to 3300 then climbing left turn to 8000 direct HVR VOR/DME thence...**Rwy 8,** climb heading 077° to 3300 then climbing left turn to 8000 via HVR R-025 to HVR VOR/DME thence...**Rwy 21,** climb heading 212° to 3300 then climbing right turn to 8000 direct HVR VOR/DME thence...**Rwy 26,** climb heading 257° to 3300 then climbing right turn to 8000 direct HVR VOR/DME thence...
...continue climb in hold in HVR VOR/DME holding pattern (hold west, right turns, 094° inbound) to cross HVR VOR/DME at or above 8000 before proceeding on course.
NOTE: **Rwy 3,** pole 2682' from DER, 1044' left of centerline, 21' AGL/2680' MSL. **Rwy 8,** obstruction light on windsock 59' from DER, 224' left of centerline, 9' AGL/2588' MSL. Tree 1192' from DER, 752' left of centerline, 25' AGL/2610' MSL. Tank 1.3 NM from DER, 2287' left of centerline, 57' AGL/2797' MSL. **Rwy 26,** light on windsock, 50' from DER, 225' right of centerline, 9' AGL/2589' MSL. Trees beginning 1617' from DER, 650' right of centerline, 25' AGL/2659' MSL.

HELENA, MT

HELENA RGNL (HLN)
ADMT 9 08269 (FAA)

TAKE-OFF MINIMUMS: **Rwy 5,** 2500-3 or std. w/ min. climb of 250' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwy 9,** std. w/ min. climb of 240' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwy 23,** 1600-3 or std. w/ min. climb of 560' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwy 27**, 1600-3 or std. w/ min. climb of 390' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwys 16,34,** NA.

DEPARTURE PROCEDURE: **Rwys 5,9,** climbing left turn heading 270°. **Rwys 23,27,** climbing right turn heading 020°. **All Aircraft:** continue climb northwestbound via HLN R-318 to 8100, then climbing right turn direct HLN VORTAC, cross HLN VORTAC at or above 9000, before proceeding on course, or for climb in visual conditions: cross Helena Rgnl airport northbound at or above 5300 and continue climbing via HLN R-336 to WOKEN INT before proceeding on course.

NOTE: **Rwy 5,** ground beginning 5' from departure end of runway, 495' right of centerline, up to 3826' MSL. Fence beginning 423' from departure end of runway, 331' right of centerline, up to 10' AGL/3832' MSL. **Rwy 23,** pole 2198' from departure end of runway, 462' left of centerline, 76' AGL/3996' MSL, tree 1011' from departure end of runway, 379' left of centerline, 44' AGL/3964' MSL, rod on building 953' from departure end of runway, 321' left of centerline, 323' AGL/943' MSL, tree 1519' from departure end of runway, 142' right of centerline, 53' AGL/3953' MSL. **Rwy 27,** buildilng 1593' from departure end of runway, 731' left of centerline, 58' AGL/6385' MSL. Ground beginning 101' from departure end of runway, 346' left of centerline, up to 3871' MSL. Tree 1567' from departure end of runway, 616' left of centerline, 47' AGL/3906' MSL.

HERMISTON, OR

HERMISTON MUNI

NOTE: **Rwy 4,** tower 379' left of departure end of runway, 50' AGL/698' MSL. **Rwy 22,** light pole 456' left of departure end of runway, 44' AGL/684' MSL.

HOQUIAM, WA

BOWERMAN

TAKE-OFF MINIMUMS: **Rwy 6**, 600-2 or std. with a min. climb of 260' per NM to 600.

DEPARTURE PROCEDURE: **Rwy 6,** climbing right turn heading 110°: **Rwy 24,** climb runway heading. **All aircraft** climb to 600 continue climb on course.

HULETT, WY

HULETT MUNI (W43)
ORIG 07354 (FAA)

TAKE-OFF MINIMUMS: **Rwy 13,** std. w/ min. climb of 450' per NM to 6300, or 500-2¼ w/ min. climb of 295' per NM to 7700, or 2200-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 13,** climb to 7700 via heading 132° before proceeding on course, or climb in visual conditions: cross Hulett Muni Airport at or above 6300 before proceeding on course. **Rwy 31,** climbing right turn on a heading between 090° clockwise to 115° from departure end of runway to 7700 before proceeding on course.

NOTE: **Rwy 13,** road 398' from departure end of runway, 37' left of centerline, 15' AGL/4296' MSL, truck on road 1126' from departure end of runway, 346' right of centerline, 15' AGL/4334' MSL, trees beginning 4945' from departure end of runway, across centerline, up to 100' AGL/4657' MSL. **Rwy 31,** terrain 104' from departure end of runway, 420' left of centerline, 4200' MSL, terrain 344' from departure end of runway, 233' left of centerline, 4207' MSL.

IDAHO FALLS, ID

IDAHO FALLS RGNL (IDA)
AMDT 4 09351 (FAA)

DEPARTURE PROCEDURE: **All aircraft** departing IDA R-160 CW R-040 climb on course. **All others** climb direct IDA VOR/DME. Continue climb in IDA holding pattern (South, left turns, 019° inbound) to cross IDA VOR/DME at or above 7500 before proceeding on course.

NOTE: **Rwy 2,** pole 1039' from DER, 758' left of centerline, 42' AGL/4762' MSL. **Rwy 17,** trees, flagpole, building, light and vent on buildings, and vehicle on road beginning 29' from DER, 10' right of centerline, up to 84' AGL/4820' MSL. Trees and vent on building beginning 569' from DER, 22' left of centerline, up to 35' AGL/4760' MSL. Trees, antenna, and light poles beginning 1853' from DER, 26' right of centerline, up to 121' AGL/4851' MSL. **Rwy 35,** trees and railroad beginning 410' from DER, 503' right of centerline, up to 49' AGL/4769' MSL. Tree 1034' from DER, 715' left of centerline, 42' AGL/4762' MSL.

JACKSON,WY

JACKSON HOLE

DEPARTURE PROCEDURE: **Rwy 1,** use GEYSER DEPARTURE. **Rwy 19,** use TETON DEPARTURE.

JEROME, ID

JEROME COUNTY (JER)

AMDT 2 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 9,** 500-1¾ or std. w/ min. climb of 435' per NM to 4700.

DEPARTURE PROCEDURE: **Rwy 9,** climb heading 086° to 5300 before proceeding on course. **Rwy 27**, climb heading 266° to 4800 before proceeding on course.

NOTE: **Rwy 9,** bush 140' from DER, 500' left of centerline, 16' AGL/4076' MSL. Poles starting 1432' from DER, 32' left of centerline, up to 47' AGL/4169' MSL. Sign 1473' from DER, 547' left of centerline, 49' AGL/4119' MSL. Obstruction light on building 1510' from DER, 6' left of centerline, 43' AGL/4103' MSL. Trees starting 1651' from DER, 100' left of centerline, up to 53' AGL/4137' MSL. Building 2186' from DER, 173' left of centerline, 29' AGL/4119' MSL. Rising terrain starting 2549' from DER, 560' left of centerline, up to 4219' MSL. AG equip 4752' from DER, 517' left of centerline, 26' AGL/4175' MSL. Poles starting 600' from DER, 254' right of centerline, up to 48' AGL/4173' MSL. **Rwy 27,** fence starting 18' from DER, 440' left of centerline, up to 9' AGL/3969' MSL.

JOHN DAY, OR

GRANT COUNTY RGNL/OGILVIE FIELD (GCD)

AMDT 1 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwys 9, 17, 35,** NA, Terrain.

DEPARTURE PROCEDURE: **Rwy 27,** climbing left turn to 12000 heading 270° and IMB R-100 to IMB VORTAC, climb in IMB VORTAC holding pattern (E, right turns, 280° inbound) to cross IMB VORTAC at or above MEA for route of flight.

NOTE: **Rwy 27,** fence beginning 195' from departure end of runway, 50' right of centerline, up to 16' AGL/3665' MSL. Trees beginning 229' from departure end of runway, 261' right of centerline, up to 26' AGL/3662' MSL. Bush 389' from departure end of runway, 438' right of centerline, 20' AGL/3659' MSL.

KALISPELL, MT

GLACIER PARK INTL

DEPARTURE PROCEDURE: Use SKOTT DEPARTURE.

KELSO, WA

SOUTHWEST WASHINGTON RGNL (KLS)

AMDT 3 10098 (FAA)

TAKE-OFF MINIMUMS: **Rwy 12,** NA, terrain. **Rwy 30,** std. with a min. climb of 370' per NM to 1900 or 1900-2½ for climb in visual conditions.

DEPARTURE PROCEDURE:. **Rwy 30**, climb heading 303° to 1900 then climbing right turn to 3900 direct LSO NDB. Continue climb in LSO NDB holding pattern (North, right turns, 175° inbound) to cross LSO NDB at or above 3900, then via BTG R-310 to BTG VORTAC. For climb in visual conditions: cross Southwest Washington Rgnl at or above 1800, then via BTG R-309 to BTG VORTAC.

NOTE: **Rwy 30,** light pole 22' from DER, 301' right of centerline, 30' AGL/49' MSL. Windsock 235' from DER, 348' left of centerline, 30' AGL/49' MSL. Rotating beacon 502' from DER, 425' left of centerline, 50' AGL/70' MSL. Multiple trees beginning 213' from DER, 530' right to 747' left of centerline, up to 136' AGL/155' MSL. Pole 964' from DER, 44' right of centerline, 30' AGL/50' MSL.

KEMMERER, WY

KEMMERER MUNI (EMM)

AMDT 1 09239 (FAA)

TAKE-OFF MINIMUMS: **Rwys 4,10,22,28,** NA - Rwy surfaces.

DEPARTURE PROCEDURE: **Rwy 16,** climb to 12000 via heading 166° and FBR VOR/DME R-330 to FBR VOR/DME before proceeding on course. **Rwy 34,** climb via heading 346° to 8200 then climbing right turn to12000 via heading 125° and FBR VOR/DME R-345 to FBR VOR/DME before proceeding on course.

KLAMATH FALLS, OR

KLAMATH FALLS

TAKE-OFF MINIMUMS: **Rwy 7**, NA. **Rwy 14**, 1100-3 or std. with a min. climb of 275' per NM to 5500. **Rwy 25**, 3300-3 or std. with a min. climb of 250' per NM to 7400. **Rwy 32**, 2000-3 or std. with a min. climb of 320' per NM to 6300.

DEPARTURE PROCEDURE: **Rwys 14,25**, climb via runway heading to 6000 then climbing right turn direct LMT VORTAC, thence... **Rwy 32**, climb via runway heading to 5500 then climbing left turn direct LMT VORTAC, thence... climb in LMT holding pattern (W, right turns, 070° inbound) to cross LMT VORTAC at or above 8000.

LA GRANDE, OR

LA GRANDE/UNION COUNTY

TAKE-OFF MINIMUMS: **Rwy 12**, Cat A/B 2900-3 or std. with a min. climb of 350' per NM to 6100. Cat C/D 4500-3 or std. with a min. climb of 500' per NM to 7800. **Rwy 30,** Cat A/B 2900-3 or std. with a min. climb of 350' per NM to 6100. Cat C/D 3600-3 or std. with a min. climb of 450' per NM to 6800. **Rwy 34,** 2900-3 or std. with a min. climb of 350' per NM to 6100. **Rwy 16,** 2000-3 or std. with a min. climb of 500' per NM to 5000.

DEPARTURE PROCEDURE: **Rwy 12**,**16,** climbing left turn direct LGD NDB, thence; **Rwys 30,34,** climbing right turn heading 010°, thence; **all aircraft** climb to 7000 via the 339° bearing from LGD NDB, then climbing right turn direct LGD NDB.

LAKEVIEW, OR
LAKE COUNTY
TAKE-OFF MINIMUMS: **Rwy 16,** 3700-5 or std. with a min. climb of 320' per NM to 8800. **Rwy 34,** 2500-5 or std. with a min. climb of 320' per NM to 8500.
DEPARTURE PROCEDURE: **Rwy 16**, climbing right turn via LKV R-163 to LKV VORTAC. **Rwy 34**, climbing left turn heading 320° to intercept LKV R-148 then via LKV R-148 to LKV VORTAC. **All aircraft** continue climbing in the LKV VORTAC holding pattern (NW, right turns, 148° inbound) to MEA for route of flight.

LARAMIE, WY
LARAMIE RGNL
DEPARTURE PROCEDURE: **Rwy 3**, turn left. **Rwys 12,21**, turn right. **All aircraft** climb direct LAR VORTAC, continue climb in holding pattern (W, left turns, 107° inbound) to cross LAR VORTAC at or above: westbound V4, 10600. All others cross LAR VORTAC at or above MEA for direction of flight.

LAUREL, MT
LAUREL MUNI
TAKE-OFF MINIMUMS: **Rwys 9, 14, 27, 32,** NA.
DEPARTURE PROCEDURE: **Rwy 22**, turn left. **All aircraft** climb direct BIL VORTAC.

LEWISTON,ID
LEWISTON-NEZ PERCE COUNTY
DEPARTURE PROCEDURE: **Rwys 8,11,26,29**, turn left direct MQG VOR/DME. Continue climb in holding pattern (W, left turns, 066° inbound) to cross MQG VOR/DME at or above 3600.

LEWISTOWN,MT
LEWISTOWN MUNI
TAKE-OFF MINIMUMS: **Rwy 2,** 1800-2 or std. with a min. climb of 280' per NM to 6900. **Rwy 7,12,** 900-2 or std. with a min. climb of 220' per NM to 6200.
DEPARTURE PROCEDURE:**Rwys 2,30** turn left. **Rwys 7,12,20**, turn right. **Rwy 25**, climb runway heading. **All aircraft** climb direct LWT VORTAC. Continue climb in holding pattern (W, right turns, 094° inbound) to MEA for route of flight.

LEXINGTON, OR
LEXINGTON
TAKE-OFF MINIMUMS: **Rwy 26,** std. with min. climb of 280' per NM to 7600, or 1600-2 ½ for climb in visual conditions. **Rwy 8,** std. with min. climb of 490' per NM to 4200, or 1600-2 ½ for climb in visual conditions.
DEPARTURE PROCEDURE: **Rwys 8, 26,** for climb in visual conditions: cross Lexington Airport at or above 3600.
NOTES: **Rwy 8,** trees 1.42 NM from departure end of runway, 2386' left of centerline, 100' AGL/2159' MSL. Trees 1.48 NM from departure end of runway, 2755' left of centerline, 100' AGL/2179' MSL.

LIBBY, MT
LIBBY
TAKE-OFF MINIMUMS: **Rwy 33,** not authorized. **Rwy 15,** use EYESE RNAV DEPARTURE.

LIVINGSTON, MT
MISSION FIELD (LVM)
AMDT 3 09071 (FAA)
TAKE-OFF MINIMUMS: **Rwys 8,13,26,31,** NA-Enivironmental.
DEPARTURE PROCEDURE: **Rwys 4, 22,** use LIVINGSTON DEPARTURE.

MADRAS, OR
MADRAS MUNI (S33)
AMDT 1 10154 (FAA)
TAKE-OFF MINIMUMS: **Rwys 16, 22,** std. with a min. climb of 298' per NM to 3900 or 1300-3 for climb in visual conditions
DEPARTURE PROCEDURE: **Rwys 4, 34,** climbing left turn heading 210° to intercept DSD R-348 to DSD VORTAC, thence… **Rwy 16,** climbing right turn heading 210° to intercept DSD R-348 to DSD VORTAC, thence… , or for climb in visual conditions: cross Madras Muni airport at or above 3600 MSL, then proceed on DSD R-356 to DSD VORTAC, thence…**Rwy 22,** climb heading 216° to intercept DSD R-348 to DSD VORTAC, thence ... , or for climb in visual conditions: cross Madras Muni airport at or above 3600 MSL, then proceed on DSD R-356 to DSD VORTAC, thence ...
…continue climb-in-hold (hold North, right turns, 168° inbound) to MEA/MCA for route of flight.
NOTE: **Rwy 4,** vehicle on road beginning 7' from DER,268' left of centerline, up to 15' AGL/2444' MSL. Airplane on tarmac 60' from DER, 252' right of centerline, 40'AGL/2469' MSL. Bush 383' from DER, 483' right of centerline, 19' AGL/2439' MSL. Vehicle on road 742' from DER, 112' right of centerline, up to 15' AGL/2447' MSL. **Rwy 16,** bushes beginning 196'from DER, 151' left of centerline, up to 14' AGL/2444'MSL. Airplane on tarmac 1357' from DER, 280' right of centerline 40' AGL/2479' MSL. **Rwy 34,** bushes beginning 92' from DER, 116' right of centerline, up to 17' AGL/2437' MSL. Airplane on tarmac 1396' from DER, 375' left of centerline, 40' AGL/2469' MSL.

MC CALL, ID
MC CALL MUNI (MYL)
AMDT 2 09127 (FAA)
TAKE-OFF MINIMUMS: **Rwy 34**, NA-Obstacles.
DEPARTURE PROCEDURE: **Rwy 16**, use MCCALL DEPARTURE.

MC CHORD FIELD (KTCM)

TACOMA, WA 10154

DEPARTURE PROCEDURE: **Rwy 16,** Track heading 160°, turn left to intercept SEA VORTAC R-168 (V495) to SEA 168/37.1 DME (ALDER). Cross ALDER at or above 4000. After ALDER, maintain MEA/MOCA for route of flight. **Rwy 34,** Track heading 340°, then turn right to intercept SEA VORTAC R-168 (V495) to SEA R-168/37.1 DME (ALDER). Cross ALDER at or above 4000. Maintain MEA/MOCA for route of flight.

TAKEOFF OBSTACLES: **Rwy 16,** Grove of trees 143' AGL/454' MSL, 4892' from DER, 1353' left of centerline. Grove of trees 102' AGL/419' MSL, 2395' from DER, 1028' right of centerline. Trees 136' AGL/447' MSL, 2867' from DER, 1261' left of centerline. Trees 120' AGL/430' MSL, 2594' from DER, 1113' left of centerline. Trees 85' AGL/394' MSL, 2310' from DER, 957' left of centerline. Trees 83' AGL/392' MSL, 2006' from DER, 959' left of centerline. Trees 87' AGL/389' MSL, 1758' from DER, 971' left of centerline. **Rwy 34,** Tree 106' AGL/348' MSL, 2307' from DER, 1038' left of centerline. Tree 121' AGL/370' MSL, 3190' from DER, 526' right of centerline. Aircraft 65' AGL/317' MSL, 186' from DER, 407' left of centerline. Tree 64' AGL/343' MSL, 2260' from DER, 1036' left of centerline. Building 40' AGL/321' MSL, 1668' from DER, 810' left of centerline.

MC MINNVILLE, OR

MC MINNVILLE MUNI (MMV)

AMDT 4 08325 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4,** 400-1¼ or std. w/ min. climb of 238' per NM to 400, or alternatively, with standard take-off minimums and normal 200'/NM climb gradient, take-off must occur no later than 2000' prior to departure end of runway. **Rwy 17,** std. w/ min. climb of 300' per NM to 1200 or 1800-2½ for climb in visual conditions. **Rwy 22,** std. w/ min. climb of 303' per NM to 1400 or 1800-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 4,** climb heading 038° to intercept UBG R-170 to UBG VOR/DME, thence ...

Rwy 17,22, climbing left turn to intercept UBG R-183 to UBG VOR/DME, thence ... or for climb in visual conditions: cross Mc Minnville Muni at or above 1800 before proceeding on course. **Rwy 35,** climb heading 347° to intercept UBG R-221 to UBG VOR/DME, thence...

... continue climb in UBG VOR/DME holding pattern (S, left turns, 003° inbound) until reaching MEA for route of flight.

NOTE: **Rwy 4,** multiple trees beginning 2040' from departure end of runway, 353' left and 209' right of centerline, up to 100' AGL/339 feet MSL. **Rwy 17,** tree 1719' from departure end of runway, 456' right of centerline, 100' AGL/231' MSL. Tree 1760' from departure end of runway, 627' left of centerline, 100' AGL/257' MSL. **Rwy 22,** multiple trees beginning 282' from departure end of runway, 120' left and 144' right of centerline, up to 100' AGL/246' MSL. Tree 4047' from departure end of runway, 1319' left of centerline, 100' AGL/284' MSL. **Rwy 35,** multiple trees beginning 1551' from departure end of runway, 229' right of centerline, up to 100' AGL/277'MSL.

MEDFORD,OR

ROGUE VALLEY INTL-MEDFORD (MFR)

AMDT 9 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwys 9,27,** NA-Obstacles. **Rwy 14**, std. w/ min. climb of 430' per NM to 4600, or 2900-3 for climb in visual conditions. **Rwy 32,** std. with a min. climb of 260' per NM to 6800, or 2900-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 14,** climbing right turn direct OED VORTAC, or for climb in visual conditions, cross Rogue Valley Intl airport at or above 4100 before proceeding direct OED VORTAC... **Rwy 32,** climbing right turn direct OED VORTAC, or for climb in visual conditions, cross Rogue Valley Intl airport at or above 4100 before proceeding direct OED VORTAC...

...all aircraft climb in OED VORTAC holding pattern (hold NW, right turns, 153° inbound) to cross OED VORTAC at or above 6400.

MISSOULA, MT

MISSOULA INTL (MSO)

AMDT 8 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwys 7,25**, NA-Obstacles.

DEPARTURE PROCEDURE: **Rwys 11, 29,** use GRZLY DEPARTURE.

MOSES LAKE, WA

GRANT COUNTY INTL

NOTE: **Rwy 14R,** antenna 3902' from departure end of runway, 828' right of centerline, 98' AGL/1268' MSL. **Rwy 18,** pole 405' from departure end of runway, 334' right of centerline, 30' AGL/1209' MSL. Windsock 496' from departure end of runway, 371' left of centerline, 16' AGL/1195' MSL. **Rwy 32L,** pole 1326' from departure end of runway, 373' left of centerline, 22' AGL/1202' MSL.

MOUNTAIN HOME AFB (KMUO)

MOUNTAIN HOME, ID 07270

Rwy 12, 30, 6700-3*

* Or standard with minimum climb of 270/NM to 9100.

TAKE-OFF OBSTACLES: **Rwy 12**, Terrain 0' AGL/3028' MSL, 1224' from DER, 744' right of centerline. Terrain 0' AGL/3035' MSL, 824' from DER, 721' right of centerline. Terrain 0' AGL/3035' MSL, 507' from DER, 636' right of centerline. Terrain 0' AGL/3022' MSL, 49' from DER, 202' right of centerline. Terrain 0' AGL/3018' MSL, 148' from DER, 328' left of centerline. Terrain 0' AGL/3016' MSL, 300' from DER, 580' left of centerline. Road/Vehicle 15' AGL/3044' MSL, 1147' from DER, 794' right of centerline. Power pole 35' AGL/3069' MSL, 2914' from DER, 940' right of centerline. Tower 30' AGL/3032' MSL, 1067' from DER, 902' right of centerline. Tower 28' AGL/3039' MSL, 1172' from DER, 796' right of centerline. Tower 45' AGL/3054' MSL, 2152' from DER, 1478' left of centerline. **Rwy 30**, Terrain 0' AGL/2995' MSL, 40' from DER, 492' left of centerline. Terrain 0' AGL/2999' MSL, 370' from DER, 467' right of centerline. Terrain 0' AGL/3006' MSL, 507' from DER, 636' right of centerline. Terrain 0' AGL/3007' MSL, 570' from DER, 653' right of centerline. Road/Vehicle 35' AGL/3019' MSL, 954' from DER, 773' left of centerline.

MOUNTAIN HOME, ID

MOUNTAIN HOME MUNI

TAKE-OFF MINIMUMS: **Rwy 10,** 3500-2 or std. with a min. climb of 305' per NM to 7300. **Rwy 28,** 3500-2 or std. with a min. climb of 290' per NM to 7300.

DEPARTURE PROCEDURE: **Rwy 10,** climbing left turn direct STI NDB. **Rwy 28,** climbing right turn direct STI NDB. **All aircraft** departing STI NDB bearing 080° CW 340° climb on course. All others continue climb in hold (E, left turns, 271° inbound) to cross STI NDB at or above 7300.

NAMPA, ID

NAMPA MUNI

DEPARTURE PROCEDURE: **Rwy 11**, climbing right turn direct MPA NDB, continue climb in MPA holding pattern (NW, right turns, 145° inbound). Depart MPA NDB at or above 5500 before proceeding on course. **Rwy 29,** climb runway heading to 3700 then climbing right turn direct MPA NDB, continue climb in MPA holding pattern (NW, right turns, 145° inbound). Depart MPA NDB at or above 5500 before proceeding on course.

NOTE: **Rwy 11,** 70' AGL tree, 1225' from departure end of runway, 90' right of centerline.

NEWCASTLE, WY

MONDELL FIELD (ECS)

AMDT 3A 09267 (FAA)

TAKE-OFF MINIMUMS: **Rwys 5,17,23,35,** NA. **Rwy 13,** 200-1 or std. with a min. climb of 275' per NM to 4400. **Rwy 31,** 300-1 or std. with a min. climb of 300' per NM to 4600.

DEPARTURE PROCEDURE: **Rwy 31,** climbing left turn. **All aircraft** climb to 5500 via ECS R-143, then climbing right turn direct ECS VOR, continue climb on course.

NOTE: **Rwy 13,** fence posts, beginning 299' from DER, 218' left of centerline, up to 10' AGL/ 4190' MSL. Light on antenna 1951' from DER, 879' left of centerline, 84' AGL/4244' MSL. **Rwy 31,** multiple poles, beginning 74' from DER, 237' right of centerline, up to 20' AGL/ 4200' MSL. Bush 5787' from DER, 1441' right of centerline, 13' MSL/4363' MSL. Railroad 735' from DER, 314' right of centerline 30' AGL/4202' MSL. Road 207' from DER, 254' right of centerline, 15' AGL/4187' MSL.

NEWPORT, OR

NEWPORT MUNI

TAKE-OFF MINIMUMS: **Rwy 2**, NA. **Rwy 16**, 500-2 or std. with a min. climb of 310' per NM to 800.

DEPARTURE PROCEDURE: **Rwy 2,** NA. **Rwy 16,** turn right. **Rwy 34**, turn left. Aircraft departing via ONP R-180 CW R-320 depart on course. All others continue climbing via ONP R-200 to 1500 then climbing left turn direct ONP VORTAC. Cross ONP VORTAC at or above 2200.

NORTH BEND, OR

SOUTHWEST OREGON RGNL (OTH)

AMDT 5 10154 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4,** std. with a min. climb of 475' per NM to 1200 or 900-3 with a min. climb of 300' per NM to 900 or 1600-2½ for climb in visual conditions. **Rwy 13,** 400-2½ with a min. climb of 250' per NM to 2500 or 1600-2½ for climb in visual conditions. **Rwy 31,** 300-1¾ or std. with a min. climb of 280' per NM to 300.

DEPARTURE PROCEDURE: **Rwy 4,** climb heading 043° to intercept OTH VORTAC R-337 northwest bound to 1800 before proceeding on course, or for climb in visual conditions cross Southwest Oregon Rgnl airport at or above 1500 before proceeding on course. **Rwy 13,** climb heading 132° to 1300 before proceeding on course, or for climb in visual conditions cross Southwest Oregon Rgnl airport at or above 1500 before proceeding on course. **Rwy 22,** climb heading 223° to 700 before proceeding on course. **Rwy 31,** climb heading 312° to 800 before proceeding on course.

NOTE: **Rwy 4,** Obstruction light on antenna 383' from DER, 207' right of centerline, 22' AGL/35' MSL. Ship 1000' from DER, on centerline, up to 140' MSL. Obstruction lights on bridge beginning 1886' from DER, 621' left of centerline, up to 93' AGL/93' MSL. Bridge beginning 4728' from DER, 580' right of centerline, 265' AGL/265' MSL. Obstruction lights on bridge beginning 4741' from DER, 948' right of centerline, up to 268' AGL/ 268' MSL. Transmission tower 5031' from DER, 677' right of centerline, 213' AGL/216' MSL. Trees beginning 1.2 NM from DER, 409' left of centerline, up to 150' AGL/549' MSL. Trees beginning 1.5 NM from DER, 1396' right of centerline, up to 150' AGL/629' MSL. Buildings beginning 1.7 NM from DER, 776' left of centerline, up to 73' AGL/393' MSL. **Rwy 13,** bushes beginning 38' from DER, 175' left of centerline, up to 16' AGL/33' MSL. Vehicle on road, 193' from DER, 237' left of centerline, up to 15' AGL/30' MSL. Bush 193' from DER, 145' right of centerline, up to 20' AGL/37' MSL. Trees beginning 346' from DER, 17' right of centerline, up to 150' AGL/349' MSL. Buildings beginning 504' from DER, 243' right of centerline, up to 86' AGL/106' MSL. Trees beginning 628' from DER, 6' left of centerline, up to 150' AGL/298' MSL. Antenna on building 712' from DER, 554' right of centerline, up to 51' AGL/68' MSL. Poles beginning 880' from DER, 13' right of centerline, up to 136' AGL/236' MSL. Spire 3467' from DER, 1122' left of centerline, 55' AGL/243' MSL. Pole 1.0 NM from DER, 159' left of centerline, up to 121' AGL/221' MSL. **Rwy 22,** ship 4050' from DER, on centerline, up to 140' MSL. **Rwy 31,** ship 1000' from DER, on centerline, up to 140' MSL. Trees beginning 5037' from DER, 15' left of centerline, up to 92' AGL/232' MSL. Trees beginning 5985' from DER, 1419' right of centerline, up to 108' AGL/188' MSL.

OAK HARBOR, WA

A J EISENBERG (OKH)
ORIG-A 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 7,** 300-1. **Rwy 25,** 300-1

DEPARTURE PROCEDURE: **Rwy 7,** climb via heading 071° to 2000, then climbing right turn direct CVV VOR/DME. Continue climb on course. **Rwy 25,** climb via heading 251° to 2100, then climbing left turn direct CVV VOR/DME. Continue climb on course.

NOTE: **Rwy 7,** multiple trees beginning 1167' from DER, 212' left of centerline, up to 80' AGL/319' MSL. Multiple trees beginning 664' from DER, 208' right of centerline, up to 80' AGL/299' MSL. Fence 612' from DER, right and left of centerline, 10' AGL/229' MSL. Multiple bushes beginning 240' from DER, 64' left of centerline, up to 8' AGL/227' MSL. **Rwy 25,** cars on road 87' from DER, left and right of centerline, up to 15' AGL/174' MSL. Multiple trees beginning 2271' from DER, right and left of centerline, up to 80' AGL/279' MSL.

OLYMPIA, WA

OLYMPIA RGNL (OLM)
AMDT 5A 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwy 17**, 300-2 or std. with a min. climb of 706' per NM to 600, or 2200-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 8,** climb heading 085° to 1000 then climbing left turn direct OLM VORTAC, thence. . .**Rwy 17,** climb heading 172° to 1200 then climbing right turn direct OLM VORTAC, thence. . .or climb in visual conditions to cross OLM VORTAC at or above 2300, thence. . .**Rwy s 26,35,** climbing right turn direct OLM VORTAC, thence. . .

. . .continue climb in OLM VORTAC holding pattern (south, right turn, 356° inbound) to cross OLM VORTAC at or above MEA/MCA for route of flight.

NOTE: **Rwy 8,** multiple trees beginning 880' from DER, 214' left of centerline, up to 100' AGL/343' MSL. Multiple trees beginning 1636' from DER, 131' right of centerline, up to 100' AGL/320' MSL. **Rwy 17,** multiple trees beginning 1008' from DER, 24' left of centerline, up to 100' AGL/490' MSL. Multiple trees beginning 752' from DER, 3' right of centerline, up to 100' AGL/370' MSL. **Rwy 26,** multiple trees and WSK on building beginning 475' from DER, 595' left of centerline, up to 100' AGL/330' MSL. Multiple trees beginning 338' from DER, 339' right of centerline, up to 100' AGL/309' MSL. **Rwy 35,** multiple trees beginning 2176' from DER, 198' left of centerline, up to 100' AGL/313' MSL. Multiple trees and field light on hangar beginning 657' from DER, 621' right of centerline, up to 100' AGL/315' MSL.

OMAK, WA

OMAK

TAKE-OFF MINIMUMS: **Rwy 17,** 2200-2 or std. with a min. climb of 300' per NM to 4200. **Rwy 35,** NA.

DEPARTURE PROCEDURE: **Rwy 17,** use GETNG RNAV DEPARTURE. **Rwy 35,** NA.

ONTARIO, OR

ONTARIO MUNI (ONO)
AMDT 3 08325 (FAA)

DEPARTURE PROCEDURE: **Rwy 32**, climb to 9600 on a heading between 010° CW to 141° from departure end of runway or minimum climb of 280' per NM to 9600 for all other courses.

NOTE: **Rwy 14,** multiple trees, poles, and buildings beginning 90' from departure end of runway, 157' right of centerline up to 120' AGL/2314' MSL. Multiple trees, poles, and buildings beginning 502' from departure end of runway, 506' left of centerline up to 120' AGL/2314' MSL. **Rwy 32,** multiple trees, poles, and buildings beginning 340' from departure end of runway, 405' left of centerline up to 100' AGL/2458' MSL. Multiple trees, poles, and buildings beginning 2' from departure end of runway, 472' right of centerline up to 100' AGL/2431' MSL.

PASCO, WA

TRI-CITIES

DEPARTURE PROCEDURE: **All runways**, climb runway heading to 1000, thence... **Rwy 12**, turn left. All others turn right. **All aircraft** climb direct PSC VOR/DME before proceeding on course.

PENDLETON, OR

EASTERN OREGON RGNL AT PENDLETON (PDT)
AMDT 3 09183 (FAA)

DEPARTURE PROCEDURE: **Rwys 7, 29, 34,** climbing left turn direct PDT VORTAC, thence...
Rwys 11, 16, climbing right turn direct PDT VORTAC, thence...
Rwy 25, climb direct PDT VORTAC, thence...
...continue climb in PDT VORTAC holding pattern (West, left turn, 073° inbound) to cross PDT VORTAC at or above MEA before proceeding on course.

NOTE: **Rwy 16,** multiple trees beginning 232' from DER, 348' right of centerline, up to 100' AGL/1579' MSL. **Rwy 25,** multiple antennas and terrain beginning 203' from DER, 259' left of centerline, up to 13' AGL/1512' MSL. **Rwy 29,** terrain 189' from DER, 247' left of centerline, 1493' MSL.

PINEDALE, WY

PINEDALE/RALPH WENZ FIELD (PNA)
AMDT 2 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 29,** std. with a min. climb of 310' per NM to 8300, or 4900-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 11,** climbing right turn to 10000 via heading 190° and BPI R-040 to BPI VOR/DME before proceeding on course. **Rwy 29,** climbing left turn to 10000 via heading 230° and BPI R-020 to BPI VOR/DME before proceeding on course or for climb in visual conditions: cross Pinedale/Ralph Wenz Field at or above 11800 before proceeding on course.

PLENTYWOOD, MT

SHER-WOOD

NOTE: **Rwy 12,** multiple bushes beginning 47' from departure end of runway, 71' left of centerline, up to 12' AGL/2251' MSL. Multiple bushes beginning 362' from departure end of runway, 514' right of centerline, up to 12' AGL/ 2251' MSL. **Rwy 30,** multiple bushes and road beginning 68' from departure end of runway, 75' right of centerline, up to 12' AGL/2303' MSL. Multiple bushes beginning 217' from departure end of runway, 60' left of centerline, up to 12' AGL/2296' MSL.

POCATELLO, ID

POCATELLO RGNL (PIH)

AMDT 7 09351 (FAA)

DEPARTURE PROCEDURE: use KNURL ONE DEPARTURE.

POLSON, MT

POLSON

TAKE-OFF MINIMUMS: **Rwy 18**, N/A-extremely precipitous terrain. **Rwy 36**, standard with a min. climb of 270' per NM to 8400'.

DEPARTURE PROCEDURE: **Rwy 36**, Use ANGIL RNAV DEPARTURE.

NOTES: **Rwy 36**, Road 509' from departure end of runway, 2955' MSL. Trees 2.39 NM from departure end of runway, 3383' left of centerline, 100' AGL/3179 MSL. Rapidly rising precipitous terrain left and right of centerline running along southern Flathead River ridges.

PORT ANGELES, WA

PORT ANGELES CGAS

DEPARTURE PROCEDURE: Copter departure, climb from landing area direct to EDIZ HOOK NDB. Continue climb in holding pattern (NE, right turns, 237° inbound) to MEA for direction of flight.

WILLIAM R FAIRCHILD INTL

DEPARTURE PROCEDURE: **Rwys 8,13, 26, 31**, use WATTR FIVE DEPARTURE.

PORTLAND, OR

PORTLAND INTL (PDX)

AMDT 6 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwy 3,** 500-3 or std. w/ min. climb of 400' per NM to 600. **Rwy 10L/R,** std. w/ min. climb of 270' per NM to 2900. **Rwy 21,** std. w/ min. of 310' per NM to 1800.

DEPARTURE PROCEDURE: **Rwy 3,** climb heading 025° to 700, then climbing left turn direct BTG VORTAC, thence ... **Rwys 10L,10R,** climb heading 099° to 500, then climbing left turn direct BTG VORTAC, thence …**Rwy 21,** climb heading 205.03 to 500, then climbing right turn direct BTG VORTAC, thence ... **Rwys 28L,28R,** climb heading 279° to 500, then climbing right turn direct BTG VORTAC, thence continue climb in BTG VORTAC holding pattern (hold NW, right turns, 149° inbound) to cross BTG VORTAC at or above MCA/MEA before proceeding on course.

NOTE: **Rwy 3,** signs, tower, trees, and vehicle on road beginning 468' from departure end of runway, 28' left of centerline, up to 100' AGL/449' MSL. Poles, trees, and vehicle on road beginning 609' from departure end of runway, 7' left of centerline, up to 100' AGL/416' MSL. **Rwy 10L,** rising terrain and vehicle on road beginning 7' from departure end of runway, 376' left of centerline, up to 17' AGL/60' MSL. **Rwy 10R,** pole 1996' from departure end of runway, 758' right of centerline, 54' AGL/74' MSL. note: **Rwy 21,** trees beginning 1319' from departure end of runway,155' right of centerline, up to 100' AGL/318' MSL. Poles and trees beginning 353' from departure end of runway, 36' left of centerline, up to 100' AGL/317' MSL. **Rwy 28L,** trees 1873' from departure end of runway, 836' left of centerline, 50' AGL/ 88' MSL.

Rwy 28R, multiple signs, poles, and vehicle on road beginning 876' from departure end of runway, 654' right of centerline, up to 27' AGL/69' MSL.

PORTLAND, OR (CON'T)

PORTLAND-HILLSBORO (HIO)
AMDT 6 10154 (FAA)

TAKE-OFF MINIMUMS: **Rwy 2,** std. w/ min. climb of 215' per NM to 1900 or 1200-3 for climb in visual conditions. **Rwy 30**, std. w/ min. climb of 235' per NM to 2700 or 1200-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 12,** climbing right turn direct UBG VOR/DME… **Rwy 20,** climbing left turn direct UBG VOR/DME… **Rwys 2, 30,** climbing left turn direct UBG VOR/DME, or for climb in visual conditions cross Portland-Hillsboro airport at or above 1600 then proceed direct UBG VOR/DME…
…all aircraft climb in UBG VOR/DME holding pattern (West, right turns, 108° inbound) to cross UBG VOR/DME at or above MEA/MCA for direction of flight before proceeding on course.

NOTE: **Rwy 2,** vehicle on road 247' from DER, 1' right of centerline, up to 15' AGL/220' MSL. Terrain left and right of centerline beginning at DER up to 302' MSL. **Rwy 12,** terrain left and right of centerline beginning at DER up to 296' MSL. Trees 1836' from DER, 8' left of centerline, up to 125' AGL/331' MSL. **Rwy 20,** terrain left and right of centerline beginning at DER up to 306' MSL. Trees and hangers beginning 60' from DER, 32' left of centerline, up to 93' AGL/311' MSL. Trees, antennas and buildings beginning 564' from DER, 411' right of centerline, up to 74' AGL/280' MSL. **Rwy 30,** terrain left and right of centerline beginning at DER up to 292' MSL. Trees beginning 1664' from DER, 626' right of centerline, up to 194' AGL/363' MSL.

PORTLAND-TROUTDALE

TAKE-OFF MINIMUMS: **Rwy 7,** 3600-2 or std. with a min. climb of 380' per NM to 4100. **Rwy 25**, 900-2 or std. with a min. climb of 360' per NM to 1000.

DEPARTURE PROCEDURE: **Rwy 7**, turn left. **Rwy 25**, turn right. **All aircraft** climb via BTG R-125 direct BTG VORTAC. Continue climb on BTG R-329 within 10 NM to cross BTG VORTAC at or above: BTG R-355 CW R-055 or R-085 CW R-115 5000; all others 2500.

POWELL, WY

POWELL MUNI

TAKE-OFF MINIMUMS: **Rwy 3,16,21,34**, NA.

DEPARTURE PROCEDURE: **Rwy 13**, turn right. **Rwy 31**, turn left. **All aircraft** climb direct COD VOR/DME. Aircraft departing COD R-350 CW R-170 climb on course. All others continue climb in COD VOR/DME holding pattern (N, left turns, 189° inbound) to cross COD VOR/DME at or above 8800

PRINEVILLE, OR

PRINEVILLE (S39)
AMDT 1 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwy 10,** std. w/ min. climb of 350 feet per NM to 6500, or 2400-3 for climb in visual conditions. **Rwy 15,** std. w/ min. climb of 470' per NM to 6200, or 2400-3 for climb in visual conditions. **Rwy 28,** std. w/ min. climb of 450' per NM to 6700, or 2400-3 for climb in visual conditions. **Rwy 33,** std. w/ min. climb of 380' per NM to 6700, or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 10**, climb heading 102° to 6500 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course. **Rwy 15,** climb heading 154° to 6200 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course. **Rwy 28,** climb heading 282° to 6700 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course. **Rwy 33,** climb heading 334° to 6700 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course.

NOTE: **Rwy 10,** trees beginning 2693' from departure end of runway, 545' right of centerline, up to 100' AGL/3339' MSL. **Rwy 15,** trees beginning 1129' from departure end of runway, 697' right of centerline, up to 100' AGL/3319' MSL. **Rwy 28,** trees beginning 1803' from departure end of runway, 74' right of centerline, up to 100' AGL/3319' MSL. **Rwy 33,** trees beginning 2636' from departure end of runway, 379' right of centerline, up to 100' AGL/ 3319' MSL.

PULLMAN-MOSCOW, WA

PULLMAN-MOSCOW RGNL

TAKE-OFF MINIMUMS: **Rwy 5,** 300-1¼ with a min. climb of 278' per NM to 4400, or 4600-3 for climb in visual conditions. **Rwy 23**, 300-1 or std. with a min. climb of 361' per NM to 4700.

DEPARTURE PROCEDURE: **Rwy 5,** climbing left turn direct PUW VOR/DME, cross PUW VOR/DME at or above 4700, continue climb in PUW VOR/DME holding pattern (SW, left turn, 032° inbound) to cross PUW VOR/DME at or above MEA for direction of flight, or for climb in visual conditions; cross Pullman-Moscow Rgnl at or above 4500. **Rwy 23,** climbing left turn via PUW VOR/DME R-021, cross PUW VOR/DME at or above 4700, continue climb in PUW VOR/DME holding pattern (SW, left turn, 032° inbound) to cross PUW VOR/DME at or above MEA for direction of flight.

NOTE: **Rwy 5,** multiple trees and terrain left and right of centerline, beginning 614' from departure end of runway, 424' right of centerline up to 50' AGL/2677' MSL. Terrain 3503' from departure end of runway, 770' left of centerline, 50' AGL/2608' MSL. **Rwy 23,** multiple trees, terrain, fences, poles, and tanks beginning 669' from departure end of runway, 412' right of centerline, up to 52' AGL/2769' MSL.

PUYALLUP, WA

PIERCE COUNTY-THUN FIELD (PLU)

AMDT 1A 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16, 34,** 300-1.

DEPARTURE PROCEDURE: **Rwy 16,** climbing right turn. **Rwy 34,** climb runway heading. **All aircraft** climb via SEA R-158 to COTNY INT/SEA 18.1 DME. Continue in COTNY holding pattern (Hold S, left turns, 338° inbound) to depart COTNY at or above: 001° CW 090° 3500, 090° 3500, 091° CW 120° 10,400, 121° CW 170° 2700, 171° CW 360° 1500.

NOTE: **Rwy 16,** light pole 511' from DER, 567' right of centerline, 40' AGL/552' MSL. Multiple poles on building beginning 187' from DER, 416' left of centerline, up to 575' MSL. Multiple trees beginning 363' from DER, 656' left of centerline to 540' right of centerline, up to 662' MSL. Vehicles on road beginning 1149' from DER, 512' right of centerline, up to 15' AGL/582' MSL. Terrain beginning 1293' from DER, 529' left of centerline to 352' right of centerline, up to 581' MSL. Pipe 1520' from DER, 303' left of centerline, 574' MSL. **Rwy 34,** multiple trees beginning 58' from DER, 591' left of centerline to 1029' right of centerline, up to 694' MSL. Flagpole 1155' from DER, 464' left of centerline, 578' MSL. Building 564' from DER, 410' left of centerline, 555' MSL.

RAWLINS, WY

RAWLINS MUNI/HARVEY FIELD

TAKE-OFF MINIMUMS: **Rwy 4**, 600-2 or std. with a min. climb of 440' per NM to 7500. **Rwy 22**, 1500-2 or std. with a min climb of 365' per NM to 8700. **Rwys 10, 28**, NA.

DEPARTURE PROCEDURE: **Rwy 4,** turn right. **Rwy 22**, turn left. Climb to 10000 via RWL R-200 and CKW R-080 to CKW VOR/DME then via assigned route. Aircraft departing eastbound V4 or V6 climb via RWL R-200 to assigned route then climb on course.

REDMOND, OR

ROBERTS FIELD (RDM)

AMDT 5 09183 (FAA)

TAKE-OFF MINIMUMS: **Rwy 22,** std. w/ min. climb of 269' per NM to 4700. **Rwy 28,** std. w/ min. climb of 276' per NM to 4800.

DEPARTURE PROCEDURE: **Rwy 4,** climbing left turn via heading 265° and DSD R-047 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course. **Rwy 10,** climbing right turn via heading 240° and DSD R-090 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course. **Rwy 22,** climb heading 222° and DSD R-090 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course. **Rwy 28,** climbing left turn via heading 275° and DSD R-045 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course.

NOTE: **Rwy 28,** numerous trees beginning 1' from DER, 356' right of centerline, 12' AGL/3079' MSL. Tree 364' from DER, 448' left of centerline, 15' AGL/3054' MSL.

RENTON, WA

RENTON MUNI (RNT)

AMDT 7 09351 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. with a min. climb of 405' per NM to 800, or 1100-2½ for climb in visual conditions. **Rwy 34**, 500-2¾ or std. with a min. climb of 315' per NM to 700.

DEPARTURE PROCEDURE: **Rwy 16,** climb heading 157° to 700, then climbing right turn direct SEA VORTAC, thence..., or for climb in visual conditions: cross Renton Muni Airport westbound at or above 1000 MSL, then proceed on SEA R-029 to SEA VORTAC, thence... **Rwy 34,** Climb heading 337° to 700, then climbing left turn direct SEA VORTAC thence Climb in SEA VORTAC holding pattern (East, left turns, 290° inbound) to cross SEA VORTAC at or above MEA/MCA for direction of flight.

NOTES: **Rwy 16,** trees, towers, lights and blast shield beginning 185' from DER, 4' left of centerline, up to 100' AGL/574' MSL. Trees, lights and sign beginning 40' from DER, 54' right of centerline, up to 100' AGL/297' MSL. **Rwy 34,** Trees and terrain beginning 1.6 NM from DER, 104' left of centerline, up to 100' AGL/485' MSL. Trees, terrain and wood piling beginning 75' from DER, 7' right of centerline, up to 100' AGL/426' MSL.

REXBURG, ID

REXBURG-MADISON COUNTY

DEPARTURE PROCEDURE: **Rwy 17**, climbing right turn. **Rwy 35,** climbing left turn. **All aircraft** climb via IDA VOR/DME R-015 to RIGBY Int to MEA for route of flight before proceeding on course.

NOTE: **Rwy 17,** 100' AGL trees 125' from departure end of runway, 350' left of centerline. **Rwy 35,** 100' AGL trees 350' from departure end of runway, 450' right of centerline. 100' AGL trees 750' from departure end of runway, 500' left of centerline.

RICHLAND, WA

RICHLAND (RLD)

AMDT 8 10154 (FAA)

TAKE-OFF MINIMUMS: **Rwys 1, 8,** std. w/ min. climb of 310' per NM to 5000. **Rwy 19,** std. w/ min. climb of 480' per NM to 5000. **Rwy 26,** std. w/ min. climb of 350' per NM to 5000.

DEPARTURE PROCEDURE: **Rwys 1,8,** climbing left turn heading 220° and PSC R-269 to 6000 to PAPPS INT /PSC 32.72 DME before proceeding on course. **Rwy 19,** climbing right turn heading 310° and PSC R-269 to 6000 to PAPPS INT/PSC 32.72 DME before proceeding on course. **Rwy 26,** climb heading 310° and PSC R-269 to 6000 to PAPPS INT/PSC 32.72 DME before proceeding on course.

NOTE: **Rwy 1,** crane 4957' from DER,1271' right of centerline, up to 120' AGL/520' MSL. Poles beginning 752' from DER, 446' right of centerline, up to 20' AGL/ 416' MSL. Trees beginning 43' from DER, 102' left of centerline, up to 25' AGL/424' MSL. Multiple trees 184' from DER, 162' right of centerline, up to 25' AGL/424' MSL. **Rwy 8,** railroad beginning 181' from DER, left to right of centerline, up to 23' AGL/412' MSL. Sign 23' from DER, 122' right of centerline, up to 4' AGL/391' MSL. Trees beginning 1142' from DER, 12' right of centerline, up to 25' AGL/454' MSL. Trees beginning 2240' from DER, 94' left of centerline, up to 25' AGL/456' MSL. **Rwy 19,** bushes beginning 22' from DER, 297' left of centerline, up to 7' AGL/401' MSL. Trees beginning 323' from DER, 478' right of centerline, up to 25' AGL/ 424' MSL. Trees beginning 665' from DER, 399' left of centerline, up to 25' AGL/472' MSL. **Rwy 26,** antenna 310' from DER, 444' right of centerline, up to 7' AGL/ 408' MSL. Fence 458' from DER, 360' left of centerline, up to 25' AGL/425' MSL. Fence 456' from DER, 408' right of centerline, up to 25' AGL/410' MSL. Post 398' from DER, 255' right of centerline, up to 9' AGL/409' MSL. Bush 755' from DER, 257' right of centerline, up to 17' AGL/417' MSL. Ground 480' from DER, 488' right of centerline, up to 421' MSL. Trees beginning 174' from DER, 231' right of centerline, up to 25' AGL/425' MSL. Trees beginning 184' from DER, 210' left of centerline, up to 25' AGL/457' MSL.

RIVERTON, WY

RIVERTON RGNL (RIW)

AMDT 1 10042 (FAA)

DEPARTURE PROCEDURE: **Rwys 1, 10, 19, 28,** climbing right turn direct RIW VOR/DME. **All Aircraft** climb in RIW holding pattern (hold East, right turns, 287° inbound) to MEA for direction of flight.

NOTES: **Rwy 1,** sage brush beginning 35' from DER, left and right of centerline, up to 3' AGL/5499' MSL. **Rwy 10 ,** sage brush beginning 20' from DER, left and right of centerline, up to 3' AGL/5466' MSL. **Rwy 19,** sage brush beginning 49' from DER, 171' right of centerline, up to 3' AGL/5479' MSL. Windstocks beginning 154' from DER, 268' right of centerline, up to 28' AGL/5468' MSL. **Rwy 28,** sage brush, tower, and pole beginning 54' from DER, 154' right of centerline, up to 59' AGL/ 5679' MSL. Sage brush, fence, and poles beginning 132' from DER, 27' left of centerline, up to 67' AGL/5647' MSL.

ROCK SPRINGS, WY

ROCK SPRINGS-SWEETWATER COUNTY (RKS)

AMDT 6 10098 (FAA)

DEPARTURE PROCEDURE: **Rwy 3,** climb heading 032° to 8000 then climbing left turn direct OCS VOR/DME, continue climb in OCS VOR/DME holding pattern (hold East, right turns, 260° inbound) to cross OCS VOR/DME at or above MEA for route of flight. **Rwy 9,** climb heading 090° to 8200 then climbing left turn direct OCS VOR/DME, continue climb in OCS VOR/DME holding pattern (hold East, right turns, 260° inbound) to cross OCS VOR/DME at or above MEA for route of flight. **Rwy 21,** climb heading 212° to 8400, then climbing right turn direct OCS VOR/DME, continue climb in OCS VOR/DME holding pattern (hold East, right turns, 260° inbound) to cross OCS VOR/DME at or above MEA for route of flight. **Rwy 27,** climb heading 270° to 7900, then climibing right turn via OCS R-291 to OCS VOR/DME, continue climb in OCS VOR/DME holding pattern (hold East, right turns, 260° inbound) to cross OCS VOR/DME at or above MEA for route of flight.

NOTE: **Rwy 3,** vehicle on road beginning 22' from DER, 120' left of centerline, up to 20' AGL/6760' MSL, bushes beginning 178' from DER, 517' right of centerline, up to 15' AGL/6755' MSL. **Rwy 21,** bush 53' from DER, 221' left of centerline, 15' AGL/6737' MSL.

RONAN, MT

RONAN (7S0)

ORIG 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16,** std. w/ min. climb of 260' per NM to 9900 or 6100-3 for climb in visual conditions. **Rwy 34,** std. w/ min. climb of 250' per NM to 9900 or 6100-3 in visual conditions.

DEPARTURE PROCEDURE: **Rwy 16,** climb to 8800 on a heading between 177° CW to 336° from DER or for climb in visual conditions, cross Ronan airport at or above 9000 before proceeding on course. **Rwy 34,** climb to 8800 on a heading between 336° CCW to 177° from DER or for climb in visual conditions, cross Ronan airport at or above 9000 before proceeding on course.

NOTE: **Rwy 16,** tree 485' from DER, 386' left of centerline 50' AGL/3149' MSL. **Rwy 34,** building 158' from DER, 370' left of centerline 40' AGL/3130' MSL. Tree 1358' from DER, 556' left of centerline 50' AGL/3149' MSL.

ROSEBURG, OR

ROSEBURG RGNL (RBG)
AMDT 5A 08297 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. with a min. climb of 642' per NM to 2000, or 1700-3 for climb in visual conditions. **Rwy 34,** std. with a min. climb of 760' per NM to 2000, or 1700-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 16,** climb direct RBG VOR/DME, or climb in visual conditions to cross Roseburg Airport southbound at or above 2200, then direct RBG VOR/DME. Then via RBG R-157 and right turn direct RBG VOR/DME to cross at or above the MCA or MEA for route of flight. **Rwy 34,** climb via heading 342° to 4000, or climb in visual conditions to cross Roseburg Airport northbound at or above 2200 and then via heading 342° to 4000. Then climbing left turn direct RBG VOR/DME, to cross RBG VOR/DME at or above MCA or MEA for route of flight. Aircraft that have not reached the MCA or MEA for route of flight continue climb via RBG R-157 and right turn direct RBG VOR/DME.

NOTE: **Rwy 16,** tower 1.56 NM from departure end of runway, 2231' right of centerline, 50' AGL/1201' MSL, tree 1.47 NM from departure end of runway, 1560' right of centerline, 21' AGL/980' MSL, tree 1.46 NM from departure end of runway, 1298' right of runway centerline, 45' AGL/964' MSL, pole 1.36 NM from departure end of runway, 921' right of centerline, 75' AGL/914' MSL, rod on airway beacon 1.29 NM from departure end of runway, 409' right of centerline, 52' AGL/891' MSL, tree 655' from departure end of runway, 347' right of runway centerline, 93' AGL/593' MSL, obstruction light on pole 691' from departure end of runway, 187' right of runway centerline, 117' AGL/557' MSL. **Rwy 34,** tree 1.10 NM from departure end of runway, 2003' left of runway centerline, 60' AGL/1179' MSL. Tree 5165' from departure end of runway, 1744' left of centerline, 64' AGL/1023' MSL. Obstruction light on pole 4850' from departure end of runway, 56' left of centerline, 15' AGL/894' MSL. Tree 4785' from depature end of runway, 48' left of runway centerline, 23' AGL/862' MSL. Tree 1.41 NM from departure end of runway, 1826' left of runway centerline, 17' AGL/896' MSL. Tree 4079' from departure end of runway, 508' left of runway centerline, 21' AGL/780' MSL. Tree 5067' from departure end of runway, 265' right of centerline, 43' AGL/802' MSL. Tree 4260' from departure end of runway, 345' right of centerline, 42' AGL/761' MSL. Tree 1465' from departure end of runway 329' right of runway centerline, 100' AGL/642' MSL. Tree 913' from departure end of runway, 217' right of runway centerline, 100' AGL/622' MSL. Tree 647' from departure end of runway, 345' right of runway centerline, 100' AGL/615' MSL. Hill 1065' from departure end of runway, 299' right of runway centerline 608' MSL. Trees beginning 60' from departure end of runway, 117' left of runway centerline, up to 16' AGL/554' MSL. Trees beginning 242' from departure end of runway, 209' right of runway centerline, up to 56' AGL/584' MSL. Vehicle on road 265' from departure end of runway, 229' right of runway centerline, 15' AGL/560' MSL. Multiple signs beginning 792' from departure end of runway, 550' left of runway centerline, up to 60' AGL/565' MSL. Bush 94' from departure end of runway, 228' right of runway centerline, 19' AGL/547' MSL. Bush 202' from departure end of runway, 92' left of centerline, 7' AGL/535' MSL. Pole 640' from departure end of runway, 354' left of runway centerline, 29' AGL/557' MSL.

SALEM, OR

MCNARY FIELD

TAKE-OFF MINIMUMS: **Rwy 13**, 600-2 or std. with a min. climb of 240' per NM to 800. **Rwy 16**, 600-2 or std. with a min. climb of 340' per NM to 800.

DEPARTURE PROCEDURE: Comply with SIDs or; **Rwys 31, 34**, turn right. **Rwy 16**, turn left. **Rwy 13**, climb heading 130°. **All aircraft** climb direct TURNO LOM/ Int. Continue climb in holding (SE, left turns, 310° inbound) to cross TURNO LOM/INT at or above MEA for route of flight.

SALMON, ID

LEMHI COUNTY

TAKE-OFF MINIMUMS: **Rwy 17,** NA. **Rwy 35,** 4300-5 or std. with a min. climb of 390' per NM to 8000.

DEPARTURE PROCEDURE: **Rwy 17,** NA. **Rwy 35,** climb runway heading to 8000, then climbing left turn to 11,300 direct LKT VOR/DME before proceeding on course.

SANDPOINT, ID

SANDPOINT

TAKE-OFF MINIMUMS: **Rwy 1,** 4200-2 or std. with a min. climb of 520' per NM to 5800. **Rwy 19,** 2200-2 or std. with a min. climb of 480' per NM to 4600.

DEPARTURE PROCEDURE: **Rwy 1,** climbing right turn to COE VOR/DME via heading 200° and COE R-002. **Rwy 19,** climbing left turn to COE VOR/DME via heading 140° and COE R-002.

SARATOGA, WY

SHIVELY FIELD

TAKE-OFF MINIMUMS: **Rwy 23,** 400-1 or std. with a min. climb of 220' per NM to 7400.

DEPARTURE PROCEDURE: **Rwy 5,** turn left heading 280°. **Rwy 23,** turn right heading 340°. **All aircraft** climb to 9000 via 310° bearing from SAA NDB then continue climb on course.

SCAPPOOSE, OR

SCAPPOOSE INDUSTRIAL AIRPARK

DEPARTURE PROCEDURE: **Rwy 15**, climbing left turn direct BTG VORTAC. **Rwy 33,** climbing right turn direct BTG VORTAC. Aircraft departing BTG R-160 CW R-329 climbing left turn on course. All others climb in BTG VORTAC holding pattern (NW, right turns, 149° inbound) to cross BTG VORTAC at or above MEA/ MCA for direction of flight.

NOTE: **Rwy 15,** 158' MSL tree 470' from departure end of runway, 499' right of centerline. **Rwy 33,** cross departure end of runway 33 at or above 35' AGL/90' MSL. 130' MSL tree 613' from departure end of runway, 414' right of centerline; 142' MSL trees 1343' from departure end of runway, 348' right of centerline.

SCOBEY, MT

SCOBEY

TAKE-OFF MINIMUMS: **Rwy 12,** std. with a min. climb of 280' per NM to 3400.

SEATTLE, WA

BOEING FIELD/KING COUNTY INTL

TAKE-OFF MINIMUMS: **Rwy 13L,** 500-3 w/ min. climb of 232' per NM to 800, or 1000-2½ for climb in visual conditions. **Rwy 13R,** std. w/ a min. climb of 476' per NM to 900, or 500-3 w/ a min. climb of 386' per NM to 900, or 1000-2½ for climb in visual conditions. **Rwy 31L,** std. w/ a min. climb of 386' per NM to 800, or 300-1½ w/ min. climb of 235' per NM to 800, or 1000-2 ½ for climb in visual conditions. **Rwy 31R,** std. w/ a min. climb of 334' per NM to 900, or 400-1¾ w/ min. climb of 216' per NM to 900, or 1000-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 13L/R,** climbing right turn. **Rwys 31L/R,** climbing left turn. All aircraft climb direct to SEA VORTAC, continue climb in SEA VORTAC holding pattern (hold east, left turns, 290° inbound) to cross SEA VORTAC at or above 3000. For climb in visual conditions cross Boeing Field/King County Intl Airport at or above 900, then climb to 3000 via SEA R-344 to SEA VORTAC, continue climb in SEA VORTAC holding pattern (hold east, left turns, 290° inbound) to cross SEA VORTAC at or above 3000.

NOTES: **Rwy 13L,** multiple trees, towers, antennas and building beginning 402' from departure end of runway, 411' left of centerline, up to 127' AGL/479' MSL. **Rwy13R,** multiple trees and poles beginning 35' from departure end of runway, 154' left of centerline, up to 66' AGL/485' MSL. Multiple trees and poles beginning 501' from departure end of runway, 3' right of centerline, up to 77' AGL/195' MSL. **Rwy 31L,** multiple trees, fence, and building beginning 250' from departure end of runway, 253' left of centerline, up to 71' AGL/101' MSL. Multiple trees and floodlights beginning 1245' from departure end of runway, 447' right of centerline, up to 71' AGL/239' MSL. **Rwy31R,** multiple trees, hangers, towers, poles and building beginning 12' from departure end of runway, 389' right of centerline, up to 103' AGL/350' MSL. Multiple obstruction lights beginning 214' from departure end of runway, 99' left of centerline, up to 71' AGL/101' MSL.

SEATTLE-TACOMA INTL (SEA)

AMDT 4 08325 (FAA)

DEPARTURE PROCEDURE: **Rwys 16L, 16C, 16R,** climb to 1000 via heading 163°, then climbing right turn direct SEA VORTAC, thence...
Rwys 34L, 34C, 34R, climb to 1000 via heading 343°, then climbing left turn direct SEA VORTAC, thence...
...climb in SEA VORTAC holding pattern (hold SE, left turns, 310° inbound) to MEA/MCA for route of flight.

NOTE: **Rwy 16L,** trees beginning 2908' from departure end of runway, 1064' right of centerline, up to 100' AGL/476' MSL. **Rwy 16C,** trees beginning 4477' from departure end of runway, 484' right of centerline, up to 100' AGL/507' MSL. **Rwy 16R,** trees, antenna on building and light pole beginning 488' from departure end of runway, 436' left of centelrine, up to 100' AGL/507' MSL. Trees beginning 1137' from departure end of runway, 587' right of centerline, up to 100' AGL/468' MSL. **Rwy 34L,** fence 189' from departure end of runway, 401' right of centerline, up to 12' AGL/420' MSL. Trees beginning 4010' from departure end of runway, 857' left of centerline, up to 100' AGL/522' MSL.

SHELBY, MT

SHELBY

TAKE-OFF MINIMUMS: **Rwy 5,** 200-1¼ or std. w/ min. climb of 212' per NM to 3700, or alternatively, w/ std. takeoff minimums and a normal 200'/NM climb gradient, takeoff must occur no later than 1300' prior to departure end of runway.

NOTE: **Rwy 5,** fence post 320' from departure end of runway, 162' right of centerline, 12' AGL/3455' MSL, truck on road beginning 515' from departure end of runway, 632' right of centerline, 17' AGL/3498' MSL, tree 1 NM from departure end of runway, 1242' left of centerline, 75' AGL/3604' MSL. **Rwy 11,** truck on road 906' from departure end of runway, 691' left of centerline, 17' AGL/3456' MSL, tree 1697' from departure end of runway, 26' right of centerline, 75' AGL/3495' MSL, tree 1561' from departure end of runway, 322' left of centerline, 75' AGL/3514' MSL, light standard 852' from departure end of runway, 174' left of centerline, 22' AGL/3451' MSL.

SHELTON, WA

SANDERSON FIELD

TAKE-OFF MINIMUMS: **Rwy 5,** std. w/ a min. climb of 312' per NM to 4000, or 1500-2½ for a climb in visual conditions. **Rwy 23**, std. w/ a min. climb of 414' per NM to 4000, or 1500-2½ for a climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 5,** climbing right turn to intercept SEA R-230 to CARRO intersection. Or for climb in visual conditions: Cross Sanderson Field northeast bound at or above 1600, thence via SEA R-230 to cross CARRO intersection at or above 4000. **Rwy 23,** climbing left turn to intercept SEA R-230 to CARRO intersection. Or for climb in visual conditions: Cross Sanderson Field northeast bound at or above 1600, thence via SEA R-230 to cross CARRO intersection at or above 4000.

NOTE: **Rwy 5,** multiple trees beginning 550' from departure end of runway, 107' left of centerline, up to 94' AGL/366' MSL. Multiple trees beginning 130' from departure end of runway, 70' right of centerline, up to 80' AGL/352' MSL. **Rwy 23,** multiple trees beginning 52' from departure end of runway, 149'left of centerline, up to 72' AGL/330' MSL. Multiple trees beginning 886' from departure end of runway, 153' right of centerline, up to 155' AGL/486' MSL.

SHERIDAN, WY

SHERIDAN COUNTY

TAKE-OFF MINIMUMS: **Rwy 5,** 700-3 or std. w/ min. climb of 318' per NM to 5100, or. . .**Rwy 14,** 800-3 or std. w/ min. climb of 263' per NM to 5100, or. . .**Rwy 23,** 900-3 or std. w/ min. climb of 348' per NM to 5100, or. 1400/3 for climb in visual conditions. Climb in visual conditions NA at night.

DEPARTURE PROCEDURE: **Rwy 5,** climbing left turn via SHR R-106 to SHR VORTAC, or climb in visual conditions to cross Sheridan County Airport northwestbound at or above 5300, then via SHR R-126 to SHR VORTAC, thence. . .**Rwy 14,** climbing left turn via heading 320° and SHR R-106 to SHR VORTAC, or climb in visual conditions to cross Sheridan County Airport northwestbound at or above 5300, then via SHR R-126 to SHR VORTAC, thence. . .**Rwy 23,** climbing right turn via SHR R-153 to SHR VORTAC, or climb in visual conditions to cross Sheridan County Airport northwestbound at or above 5300, then via SHR R-126 to SHR VORTAC, thence. . .**Rwy 32,** climb via heading 320° and SHR R-106 to SHR VORTAC, thence. climb in holding pattern (hold northwest, left turn, 133° inbound) to cross SHR VORTAC at or above airway MEA for route of flight.

NOTE: **Rwy 5,** multiple trees beginning 101' from departure end of runway, 188' left of centerline, up to 80' AGL/3991' MSL. **Rwy 23,** fence 1201' from departure end of runway, 10' left of centerline, 20' AGL/4060' MSL. Building 1949' from departure end of runway, 415' left of centerline, 17' AGL/4077' MSL. Tree 3337' from departure end of runway, 391' right of centerline, 43' AGL/4143' MSL. **Rwy 32,** antenna 53' from departure end of runway, 398' right of centerline, 20' AGL/4020' MSL.

SIDNEY, MT

SIDNEY-RICHLAND MUNI

TAKE-OFF MINIMUMS: **Rwy 28**, 400-2 or std. with a min. climb of 260' per NM to 2300.

SNOHOMISH, WA

HARVEY FIELD (S43)

ORIG 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwys 15R, 33L**, NA-obstacles. **Rwy 15L,** std. w/ min. climb of 353' per NM to 1100, or 1200-2½ for climb in visual conditions. **Rwy 33R,** std. w/ min. climb of 475' per NM to 800, or 1200-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 15L,** climbing right turn on 344° course to WATON LOM, or for climb in visual conditions, cross Harvey Field at or above 1100 then proceed on 329° course to WATON LOM, thence ... **Rwy 33R,** climb on 329° course to WATON LOM, or for climb in visual conditions, cross Harvey Field at or above 1100 then proceed on 329° course to WATON LOM, thence ...

... aircraft departing WATON LOM on bearings 150° CW 340° from WATON LOM climb on course. Aircraft departing WATON LOM on bearings 340° CW 150° from WATON LOM, climb in holding pattern (South, left turns, 339° inbound) to cross WATON LOM at or above 4500 before proceeding on course.

NOTE**: Rwy 15L,** tree 81' from DER, 177' right of centerline, 40' AGL/106'MSL. Trees 685' from DER, left and right of centerline, up to 48' AGL/70' MSL. **Rwy 33R,** powerline 139' from DER, 226' left of centerline, 40' AGL/56' MSL. Tree 298' from DER, 205' right of centerline, 104' AGL/121' MSL. Tower 5708' from DER, 1956' right of centerline, 206' AGL/300' MSL.

SPOKANE, WA

FELTS FIELD (SFF)

AMDT 5 10098 (FAA)

TAKE-OFF MINIMUMS: **Rwy 3L,** std. w/ min. climb of 450' per NM to 3600, or 2300-3 for climb in visual conditions. **Rwy 3R,** std. w/ min. climb of 410' per NM to 3700, or 2300-3 for climb in visual conditions. **Rwy 21L,** std. w/ min. climb of 375' per NM to 3200, or 2300-3 for climb in visual conditions. **Rwy 21R,** std. w/ min climb of 375' per NM to 3200, or 2300-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 3L, 3R,** climb heading 035° to 3600, then climbing right turn heading 210° and GEG R-050 to GEG VORTAC, or for climb in visual conditions: cross Felts Field Airport at or above 4100, then via heading 165° and GEG R-050 to GEG VORTAC. Cross GEG VORTAC at or above MCA/MEA for route of flight. **Rwys 21L, 21R,** climb heading 215° to 3200, then climbing left turn heading 190° and GEG R-050 to GEG VORTAC, or for climb in visual conditions: cross Felts Field Airport at or above 4100, then via heading 165° and GEG R -050 to GEG VORTAC. Cross GEG VORTAC at or above the MCA/MEA for route of flight.

NOTE: **Rwy 3L,** trees beginning 1853' from DER, 772' right of centerline, up to 100' AGL/2037' MSL. Trees beginning 3538' from DER, 529' left of centerline, up to 100' AGL/2339' MSL. Antenna, trees and transmission poles beginning 1.5 NM from DER, 16' left of centerline, up to 100' AGL/2579' MSL. Trees beginning 2.3 NM from DER, 723' right of centerline, up to 100' AGL/2499' MSL. **Rwy 3R,** hangar, NDB, and trees beginning 92' from DER, 269' right of centerline, up to 100' AGL/2040' MSL. Trees beginning 4685' from DER, 1033' left of centerline, up to 100' AGL/2339' MSL. Antenna, trees and transmission poles beginning 1.6 NM from DER, 525' left of centerline, up to 100' AGL/2559' MSL. Trees and transmission poles beginning 2.6 NM from DER, 214' right of centerline, up to 150' AGL/2570' MSL. **Rwy 21L,** elevator, pole on building and trees beginning 315' from DER, 302' left of centerline, up to 140' AGL/2080' MSL. **Rwy 21R,** poles and trees beginning 188' from DER, 13' right of centerline, up to 100' AGL/1982' MSL. Elevator, pole, hangar, and building beginning 203' from DER, 1' left of centerline, up to 140' AGL/2080' MSL. Terrain and trees beginning 3.1 NM from DER, 4904' left of centerline, up to 100' AGL/2559' MSL.

SPOKANE INTL (GEG)

AMDT 5 10154 (FAA)

DEPARTURE PROCEDURE: **Rwys 3, 25,** climbing left turn direct GEG VORTAC, thence...**Rwys 7, 21,** climbing right turn direct GEG VORTAC, thence... ...continue climb via R-208 within 10 miles to cross GEG VORTAC at or above: northeast bound V120-448, 5200; eastbound V2, 5200; southeast through west bound climb on course.

NOTE: **Rwy 3,** multiple trees beginning 1089' from DER, 666' left of centerline, up to 100' AGL/2370' MSL. Tree 1524' from DER, 851' right of centerline, 100' AGL/2374' MSL. **Rwy 21,** pole 2655' from DER, 1122' left of centerline, 42' AGL/2446' MSL. Tree 3391' from DER, 1315' right of centerline, 100' AGL/2466' MSL.

STEVENSVILLE, MT

STEVENSVILLE

TAKE-OFF MINIMUMS: **Rwy 12,** do not exceed 210 knots until established on MSO R-163. **Rwy 30,** do not exceed 210 knots until established on MSO R-160.

DEPARTURE PROCEDURE: **Rwy 12,** climbing right turn via heading 335 and MSO R-163 to MSO VOR/DME climb in MSO VOR/DME holding pattern (southeast, right turn, 340° inbound) to 13000' before proceeding on course. **Rwy 30,** climbing right turn via heading 025° and MSO R-160 to MSO VOR/DME Climb in MSO VOR/DME holding pattern (southeast, right turn, 340° inbound) to 13000' before proceeding on course.

SUNRIVER, OR

SUNRIVER

TAKE-OFF MINIMUMS: **Rwy 18**, 300-1 or std. with a min. climb of 360' per NM to 4400. **Rwy 36,** 600-2 or std. with a min. climb of 240' per NM to 4900.

DEPARTURE PROCEDURE: **Rwy 18,** climb runway heading to 7000 then climbing left turn direct DSD VORTAC. **Rwy 36,** climb direct to DSD VORTAC. Then **all aircraft** climb on course.

TACOMA, WA

TACOMA NARROWS

TAKE-OFF MINIMUMS: **Rwy 35**, 400-1 or std. with a min. climb of 210' per NM to 400'.

DEPARTURE PROCEDURE: **Rwy 17,** turn right, climb via heading 230° to intercept OLM R-009 then direct OLM VORTAC. **Rwy 35,** turn left, climb via heading 270° to intercept SEA R-230 then direct CARRO INT. Continue climb in holding (SW, right turns, 047° inbound) to MEA or assigned altitude for route of flight.

THE DALLES, OR

COLUMBIA GORGE RGNL/THE DALLES MUNI

TAKE-OFF MINIMUMS: **Rwy 2**, CAT A, B 1100-2 or std. with a min. climb of 350' per NM to 1500. CAT C, D 2600-3 or std. with a min. climb of 475' per NM to 3100. **Rwy 7**, 900-3 or std. with a min. climb of 330' per NM to 1200. **Rwy 12**, 1400-3 or std. with a min. climb of 500' per NM to 2000. **Rwy 20**, 1800-3 or std. with a min. climb of 470' per NM to 2200. **Rwy 25**, NA. **Rwy 30**, 2900-3 or std. with a min. climb of 500' per NM to 2700.

DEPARTURE PROCEDURE: **Rwys 2,7**, climbing right turn heading 120°. **Rwy 12**, climb via runway heading. **Rwys 20, 30**, climbing left turn heading 120°. **All aircraft** intercept and climb southbound via LTJ R-165 to 3500. Then climbing left turn direct LTJ VORTAC. Continue climb in LTJ holding pattern (E, right turns, 260° inbound) to cross LTJ VORTAC at or above MCA or MEA for route of flight.

TILLAMOOK, OR

TILLAMOOK

TAKE-OFF MINIMUMS: **Rwys 1, 13, 19,** NA. **Rwy 31,** 2000-3 or std. with a min. climb of 350' per NM to 4500.

DEPARTURE PROCEDURE: **Rwys 1, 13, 19,** NA. **Rwy 31,** use FETUJ RNAV DEPARTURE.

TORRINGTON, WY

TORRINGTON MUNI (TOR)
ORIG 10042 (FAA)

NOTE: **Rwy 2,** terrain 30' from DER, 277' left of centerline, 4197' MSL. **Rwy 10,** multiple trees and fence beginning 71' from DER, 143' right of centerline, up to 14' AGL/4214' MSL. Terrain 14' from DER, 502' left of centerline, 4199' MSL. **Rwy 28,** terrain 133' from DER, 386' right of centerline, 4213' MSL.

TWIN FALLS, ID

JOSLIN FIELD-MAGIC VALLEY RGNL

TAKE-OFF MINIMUMS: **Rwy 12**, NA.

DEPARTURE PROCEDURE: Aircraft departing on TWF R-240 CW R-080 climb on course. All others climb runway heading 6000 then climbing turn direct TWF VORTAC. Climb in holding pattern (NW, right turns, 113° inbound) to MCA or MEA as appropriate for direction of flight.

VANCOUVER, WA

PEARSON FIELD (VUO)
AMDT 2 07354 (FAA)

TAKE-OFF MINIMUMS: **Rwy 8,** std. w/ min. climb of 358' per NM to 600, or 500-3 w/ min. climb of 201' per NM to 600, or 900-2½ for climb in visual conditions. **Rwy 26,** 600-3 or 900-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 8,** climb heading 079° to 500 then climbing left turn direct BTG VORTAC, thence. . . or for climb in visual conditions: cross Pearson Field at or above 800 MSL then proceed on BTG VORTAC R-179 to BTG VORTAC, thence. . .**Rwy 26,** climb heading 259° to 700 then climbing right turn direct BTG VORTAC, thence. . . or for climb in visual conditions: cross Pearson Field at or above 800 MSL then proceed on BTG VORTAC R-179 to BTG VORTAC, thence. . .

. . .continue climb in BTG VORTAC holding pattern (hold northwest, right turn, 149° inbound) to cross BTG VORTAC at or above MEA/MCA for route of flight.

NOTE: **Rwy 8,** tree 1.4 NM from departure end of runway, 1283' left of centerline, 100' AGL/395' MSL. Tree 1.7 NM from departure end of runway, 701' left of centerline, 100' AGL/401' MSL. Tree 2 NM from departure end of runway, 849' left of centerline, 100' AGL/406' MSL. Tree 2.4 NM from departure end of runway, 648' left of centerline, 100' AGL/399' MSL. **Rwy 26,** bridge 2704' from departure end of runway, 587' left of centerline, 243' AGL/245' MSL. Crane 1.5 NM from departure end of runway, 2563' right of centerline, 237' AGL/267' MSL. Transmission line tower 2.5 NM from departure end of runway, 2036' right of centerline, 516' AGL/534' MSL.

WALLA WALLA, WA

WALLA WALLA RGNL

DEPARTURE PROCEDURE: **Rwys 2,7, 20,25,34,** turn left. **Rwy 16,** turn right. **All aircraft** climb to 2500 via ALW VOR/DME R-195, then climbing right turn direct ALW VOR/DME to cross ALW VOR/DME at or above MEA or MCA for route of flight.

NOTE: **Rwy 16,** antenna 365' from departure end of runway, 97' right of centerline, 1155' MSL. Terrain 1' from departure end of runway 140' left of centerline, 1145' MSL. **Rwy 20,** light 666' from departure end of runway, 640' left of centerline, 1170' MSL. **Rwy 34,** terrain 213' from departure end of runway, 230' right of centerline, 1130' MSL.

WEISER, ID

WEISER MUNI (S87)
ORIG 08269 (FAA)

TAKE-OFF MINIMUMS: **Rwy 12,** std. w/ min. climb of 310' per NM to 3900 or 2400-3 for climb in visual conditions. **Rwy 30,** std. w/ min. climb of 360' per NM to 4000 or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 12,** climb heading 121° to 3900 before proceeding on course. **Rwy 30,** climb heading 301° to 4000 before proceeding on course

...for climb in visual conditions: cross Weiser Muni airport at or above 4400 before proceeding on course.

NOTE: **Rwy 12,** tree 248' from departure end of runway, 443' right of centerline, 100' AGL/2184' MSL. **Rwy 30,** tree 1907' from departure end of runway, 769' right of centerline, 100' AGL/2174' MSL.

WENATCHEE, WA

PANGBORN MEMORIAL

TAKE-OFF MINIMUMS: **Rwy 7**, NA. **Rwy 12,** 1500-2 or std. with a min. climb of 510' per NM to 2900. **Rwys 25, 30**, CAT A,B 1600-2 or std. with a min. climb of 360' per NM to 3100. CAT C,D 5500-3 or std. with a min. climb of 570' per NM to 7200.

DEPARTURE PROCEDURE: **Rwy 12,** climb runway heading. **Rwys 25, 30,** climbing left turn. **All aircraft** climb via EAT R-113 to 4000 then climbing left turn direct EAT VOR/DME. Aircraft departing EAT R-010 CW R-140 climb on course. All others continue climb in EAT VOR/DME holding pattern (E, right turns, 253° inbound) to cross EAT VOR/DME at or above: R-141 CW R-200 7400; R-201 CW R-009, 8200.

WEST YELLOWSTONE, MT

YELLOWSTONE

TAKE-OFF MINIMUMS: **Rwy 19**, 2200-2 or std. with a min. climb of 245' per NM to 8900. FAR 135 AUTH: **Rwy 1,** ½ mile.

DEPARTURE PROCEDURE: **Rwy 1**, turn right. **All aircraft** climb direct TARGY LOM. Aircraft departing TARGY LOM on bearing 190° CW 220° climb on course. All others climb south on bearing 190° within 10 NM of TARGY LOM turn left and continue climbing direct TARGY LOM to cross TARGY LOM at or above: bearing 360° CW 190° 9300, bearing 220° CW 360° 10500

WHEATLAND, WY

PHIFER AIRFIELD

DEPARTURE PROCEDURE: **Rwy 8,** climbing left turn to 9000 via heading 030° to intercept IIP VOR/DME R-140 to JEZZY Int, thence. . .**Rwy 26,** climbing right turn to 9000 via heading 360° and GYZ NDB course 051° to JEZZY INT, thence. . .

. . .continue climb-in-hold (hold northwest, right turn, 140° inbound) to 9000 before proceeding on course.

NOTE: **Rwy 8,** multiple trees 512' from departure end of runway, 584' left of centerline, 100' AGL/4859' MSL. **Rwy 26,** multiple trees, buildings, poles/lights, siren, roads w/ vehicles beginning 2' from departure end of runway, on centerline, to 488' left of centerline, 100' AGL/4899' MSL. Multiple trees, buildings, poles/lights, roads w/ vehicles beginning 2' from departure end of runway, on centerline to 499' right of centerline, 100' AGL/4859' MSL.

WHIDBEY ISLAND NAS (AULT FIELD) (NUW)

OAK HARBOR, WA. 07186

Diverse departures not authorized.

MILITARY DEPARTURE PROCEDURE: **Rwy 7**: Minimum climb of 430'/NM until 600. Climbing left turn to 2000, intercept NUW R-067, expect radar vectors to join assigned route. **Rwy 14**: Climbing left turn to 2000, intercept NUW R-128, expect radar vectors to join assigned route. **Rwy 25**: Climb to 2000 via heading 249°, expect radar vectors to join assigned route. **Rwy 32**: Climb to 2000 via heading 317°, expect radar vectors to join assigned route. **ALL RWYS:** If vectors are not received by 10 DME of NUW TACAN, climb to 3000, intercept the NUW 11 DME ARC to join assigned route. CIVIL DEPARTURE PROCEDURE: **Rwy 7**: Minimum climb of 270'/NM until 700. Climbing left turn to 2000 via heading 067°, expect radar vectors to join assigned route. **Rwy 14**: Climbing left turn to 2000, via heading 128°, expect radar vectors to join assigned route. **Rwy 25**: Use published DP or climb to 2000 via heading 249°, expect radar vectors to join assigned route. **Rwy 32**: Climb to 2000 via heading 317°, expect radar vectors to join assigned route. **ALL RWYS:** If vectors are not received by 10 DME of NUW TACAN, climb to 3000, proceed direct CVV VOR/DME to join assigned route. TAKEOFF OBSTACLES: **Rwy 7:** Terrain, 7813' from DER, 2469' left of centerline, 276' MSL. Trees, 4274' from DER, 5472' left of centerline, 472' MSL. Trees, 5239' from DER, 6257' left of centerline, 495' MSL. Trees, 8561' from DER, 3685' left of centerline, 426' MSL. Trees, 12,561' from DER, 4814' right of centerline, 462' MSL. Terrain, 11,843' from DER, 7129' left of centerline, 502' MSL. Trees, 15,361' from DER, 4015' right of centerline, 521' MSL.

WORLAND, WY

WORLAND MUNI

TAKE-OFF MINIMUMS: **Rwys 4, 10, 22, 28**, NA. **Rwy 16**, 300-2 or std. with a min. climb of 230' per NM to 4600.

DEPARTURE PROCEDURE: **All aircraft** climb to 5000, then direct RLY VOR/DME. Aircraft departing RLY R-061 CW R-349 climb on course. All others continue climb in RLY VOR/DME holding pattern (N, right turns, 159° inbound) to cross RLY VOR/DME at or above 7000.

YAKIMA, WA

YAKIMA AIR TERMINAL/MCALLISTER FIELD

TAKE-OFF MINIMUMS: **Rwy 4,** NA. **Rwy 9**, 800-4 or std. with a min. climb of 300' per NM to 5000. **Rwys 22,27,** 2500-3 or std. with a min. climb of 300' per NM to 5200.

DEPARTURE PROCEDURE: **Rwy 4,** NA. **Rwys 9,22,27,** Use ZILLA DEPARTURE PROCEDURE.

ANACONDA, MONTANA

AL-6986 (FAA)

VOR/DME CPN 111.6 Chan 53	APP CRS 307°	Rwy Idg N/A TDZE N/A Apt Elev 5030

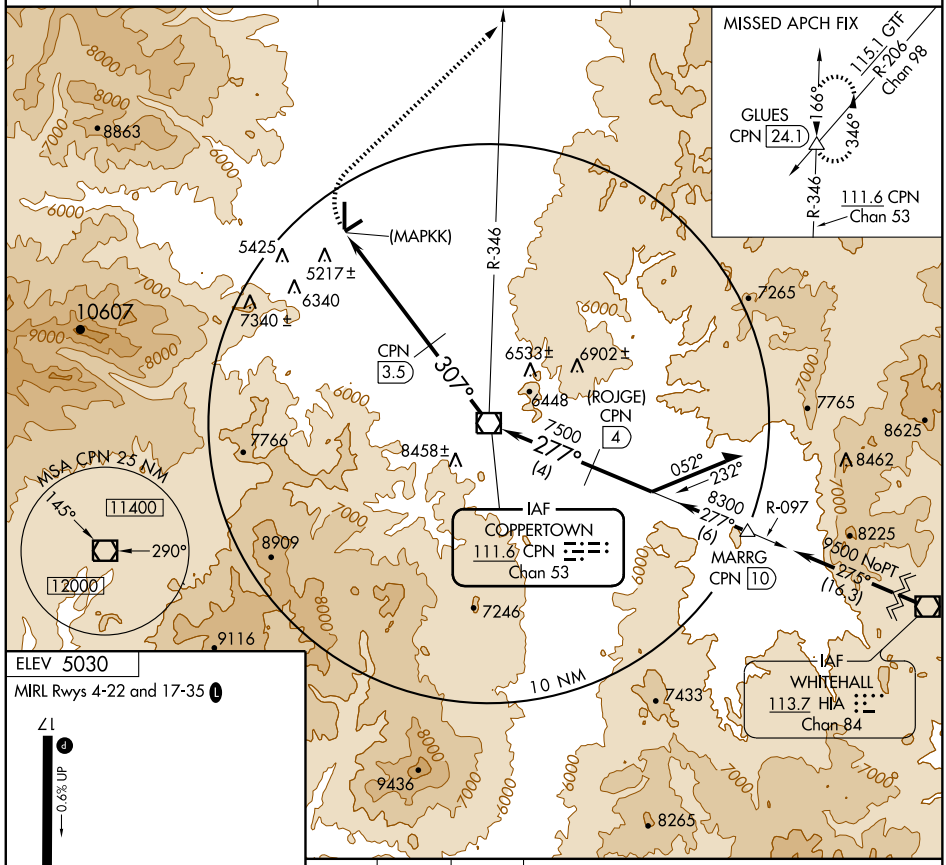
VOR/DME or GPS-A

ANACONDA/ BOWMAN FIELD (3U3)

Use Butte (BTM) altimeter setting; when not received, procedure NA.

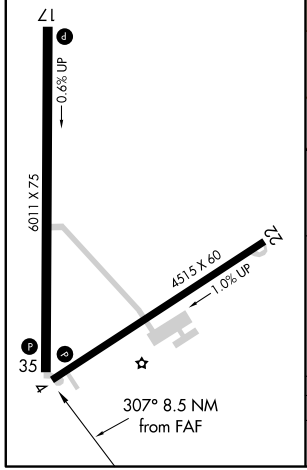
MISSED APPROACH: Climbing right turn to 9200 via heading 030° to intercept CPN R-346 to GLUES and hold.

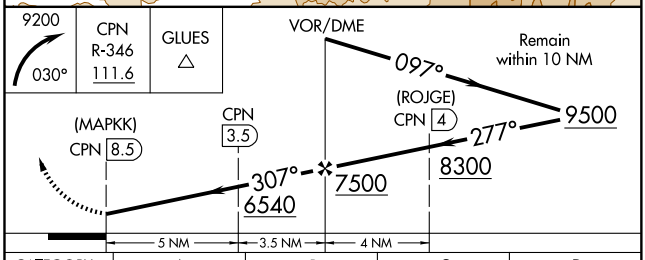
AWOS-A	SALT LAKE CENTER	UNICOM
122.8 L	132.4 338.3	122.8 (CTAF) L



ELEV 5030

MIRL Rwys 4-22 and 17-35 L





CATEGORY	A	B	C	D
CIRCLING	6140-1¼ 1110 (1200-1¼)	6300-1½ 1270 (1300-1½)	6300-3 1270 (1300-3)	6540-3 1510 (1600-3)

NW-1, 03 JUN 2010 to 01 JUL 2010

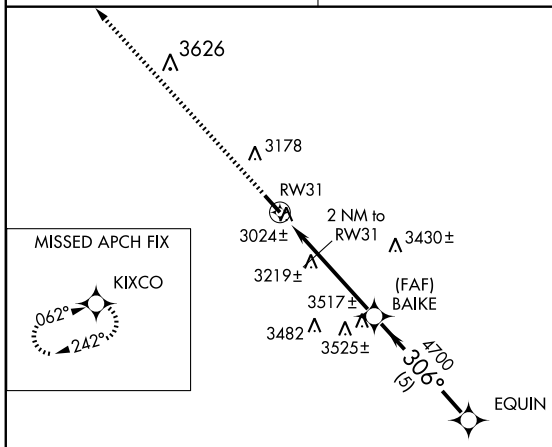
APP CRS	Rwy Idg	4898
306°	TDZE	2975
	Apt Elev	2975

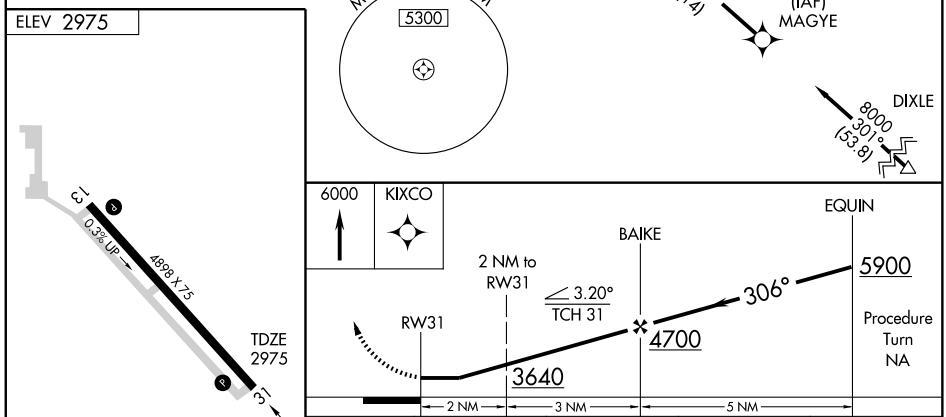
GPS RWY 31
BAKER MUNI (BHK)

T
NA

MISSED APPROACH: Climb to 6000 direct KIXCO WP and hold.

ASOS	SALT LAKE CENTER	CTAF
135.475	126.85 305.2	122.9 L





CATEGORY	A	B	C	D
S-31	3500-1	525 (600-1)	3500-1½ 525 (600-1½)	3500-1¾ 525 (600-1¾)
CIRCLING	3560-1	585 (600-1)	3560-1½ 585 (600-1½)	3560-2 585 (600-2)

NW-1, 03 JUN 2010 to 01 JUL 2010

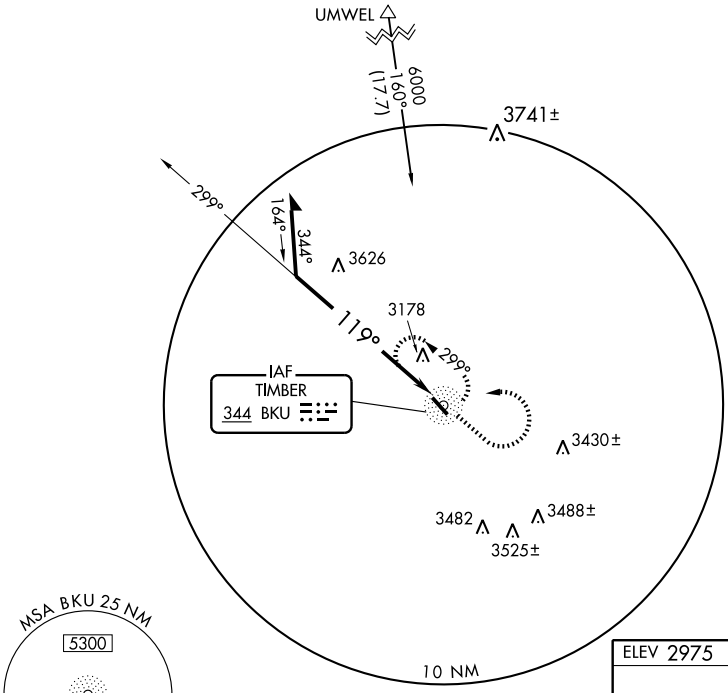
NDB BKU	APP CRS	Rwy Idg	4898
344	119°	TDZE	2974
		Apt Elev	2975

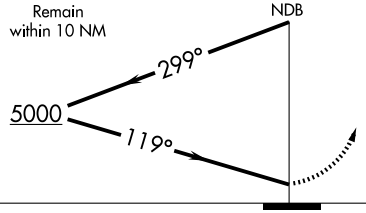
NDB RWY 13

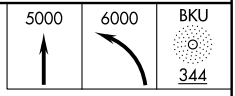
BAKER MUNI (BHK)

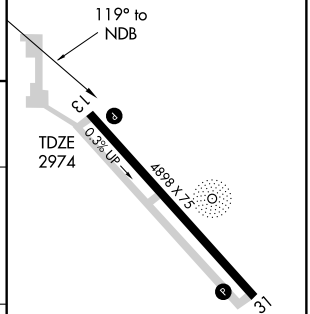
MISSED APPROACH: Climb to 5000, then climbing left turn to 6000 direct BKU NDB and hold.

ASOS	SALT LAKE CENTER	CTAF
135.475	126.85 305.2	122.9 L









CATEGORY	A	B	C	D
S-13	3980-1¼ 1006 (1100-1¼)	3980-1½ 1006 (1100-1½)	3980-3	1006 (1100-3)
CIRCLING	3980-1¼ 1005 (1100-1¼)	3980-1½ 1005 (1100-1½)	3980-3	1005 (1100-3)

MIRL Rwy 13-31 L

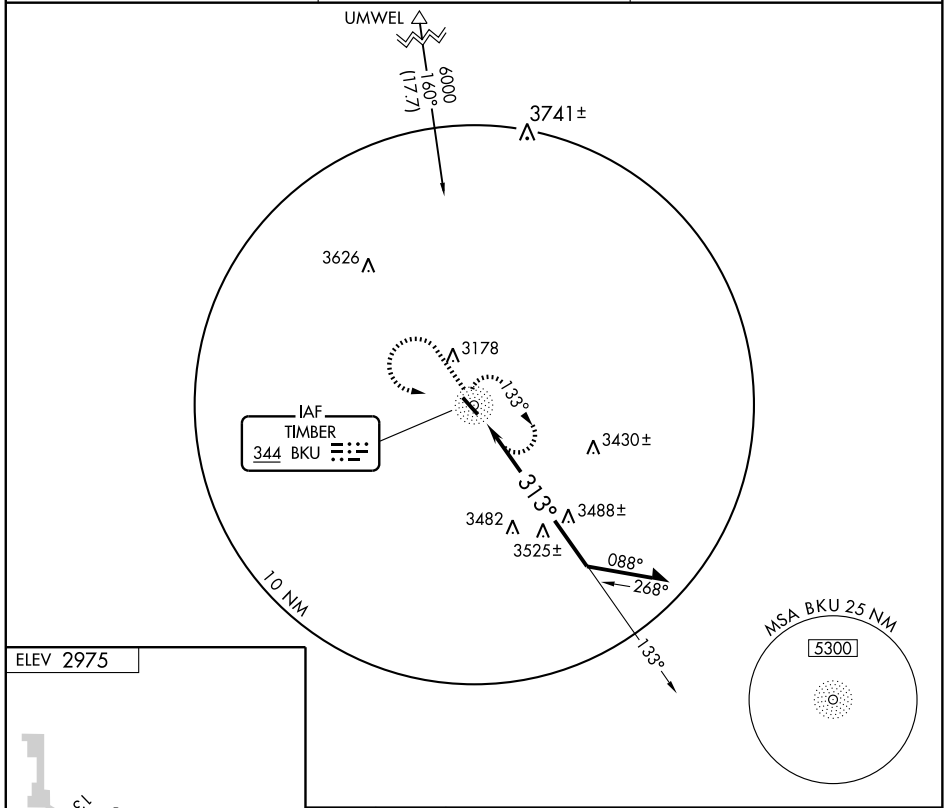
NW-1, 03 JUN 2010 to 01 JUL 2010

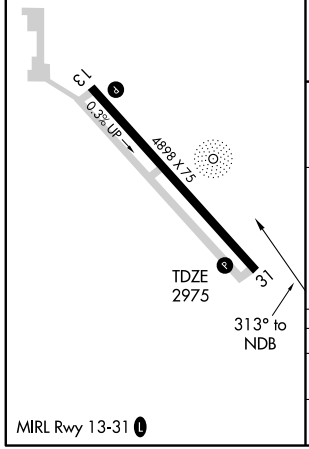
NDB BKU 344	APP CRS 313°	Rwy Idg 4898 TDZE 2975 Apt Elev 2975

NDB RWY 31
BAKER MUNI (BHK)

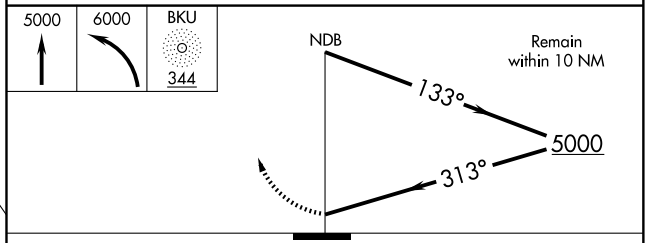
MISSED APPROACH: Climb to 5000, then climbing left turn to 6000 direct BKU NDB and hold.

ASOS	SALT LAKE CENTER	CTAF
135.475	126.85 305.2	122.9 L



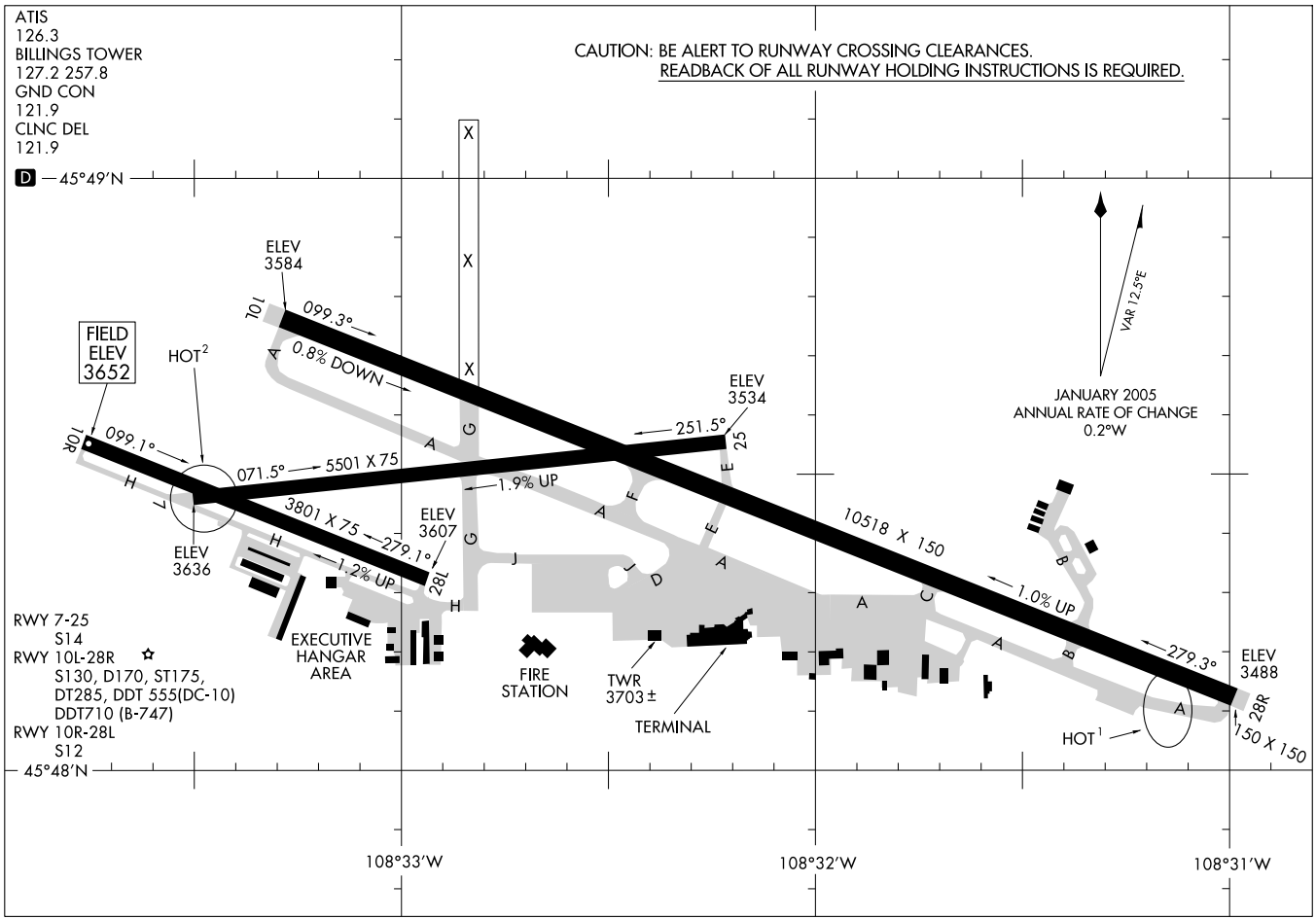


MIRL Rwy 13-31 L



CATEGORY	A	B	C	D
S-31	3880-1¼	905 (1000-1¼)	3880-2¾ 905 (1000-2¾)	3880-3 905 (1000-3)
CIRCLING	3880-1¼	905 (1000-1¼)	3880-2¾ 905 (1000-2¾)	3880-3 905 (1000-3)

NW-1, 03 JUN 2010 to 01 JUL 2010



AIRPORT DIAGRAM

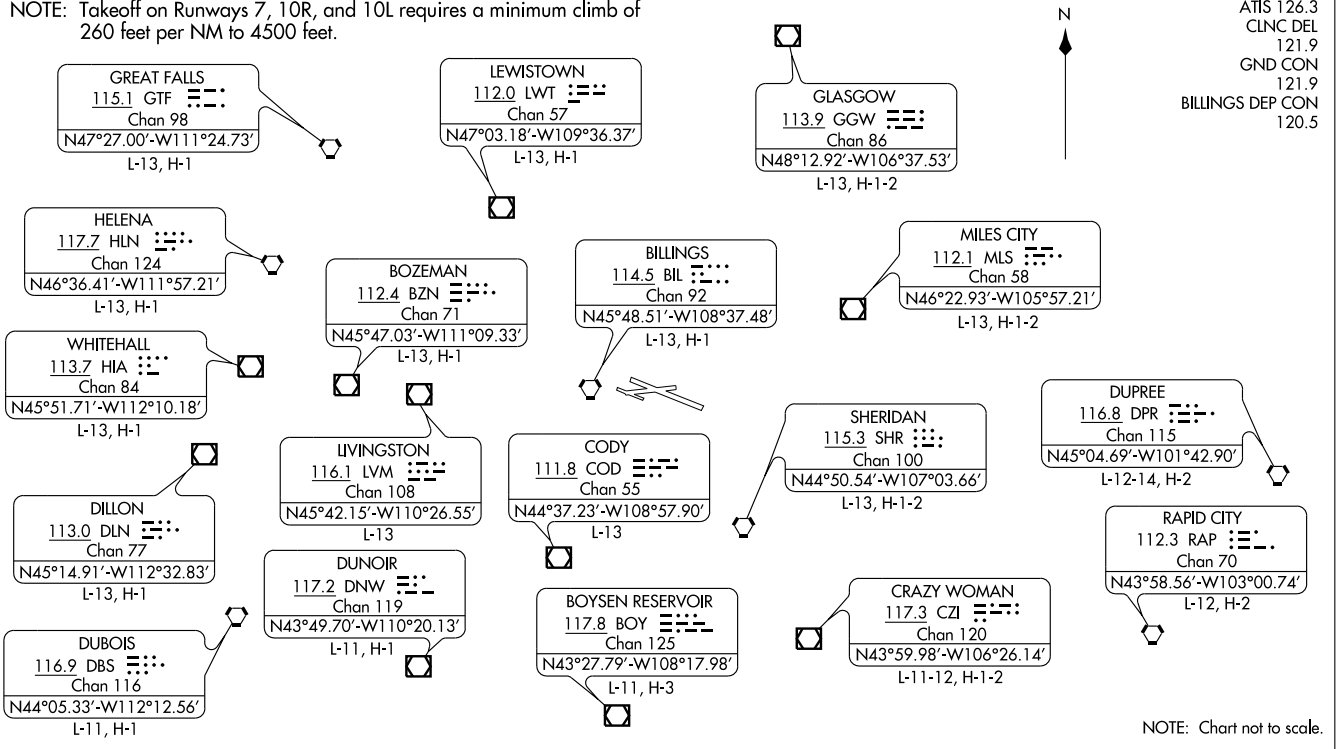
AL-48 (FAA)

BILLINGS LOGAN INTL (BIL)

BILLINGS, MONTANA

NOTE: Takeoff on Runways 7, 10R, and 10L requires a minimum climb of 260 feet per NM to 4500 feet.

ATIS 126.3
CLNC DEL 121.9
GND CON 121.9
BILLINGS DEP CON 120.5



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

ALL RUNWAYS: Fly assigned heading for vectors to assigned fix/route. Maintain 12,000 feet or assigned lower altitude. Expect clearance to filed altitude/flight level within 40 NM of BIL VORTAC.

LOST COMMUNICATIONS: If no transmissions are received for 1 minute after departure, fly last assigned heading until reaching 7000 feet. Proceed direct BIL VORTAC, then via last routing cleared and climb to filed altitude.

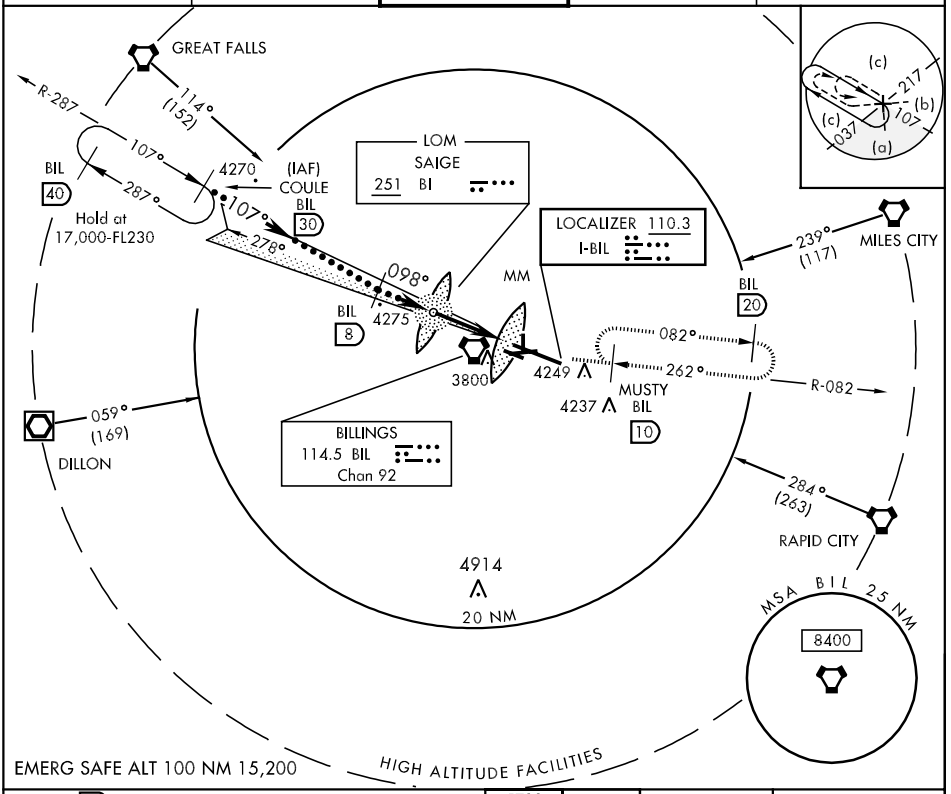
HI-ILS RWY 10L

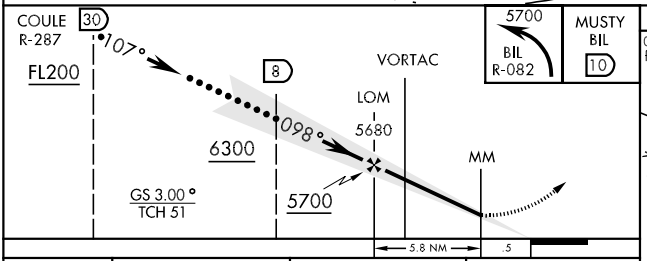
LOCALIZER I-BIL	APCH CRS	Rwy ldg / TDZE / Arpt Elev	JAL-48 [USAF]	BILLINGS LOGAN INTL (KBIL)
110.3	098°	10,518 / 3584 / 3652		

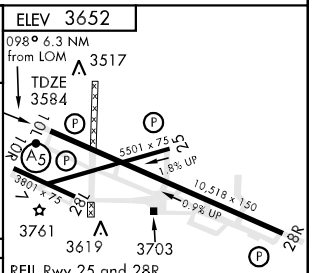
MALSR

MISSED APPROACH: Climb to 5700 via BIL R-082 to MUSTY/10 DME and hold.

ATIS	BILLINGS APP CON	BILLINGS TOWER	GND CON	CLNC DEL
126.3	120.5 284.6	127.2 257.8	121.9	121.9







CATEGORY	C	D	E
S-ILS 10L	3784/24 200 (200-½)		
S-LOC 10L	4100/50 516 (500-1)	4100/60 516 (500-1¼)	
CIRCLING	4180-1½ 528 (600-1½)	4220-2 568 (600-2)	4580-3 928 (1000-3)

FAF to MAP 6.3 NM

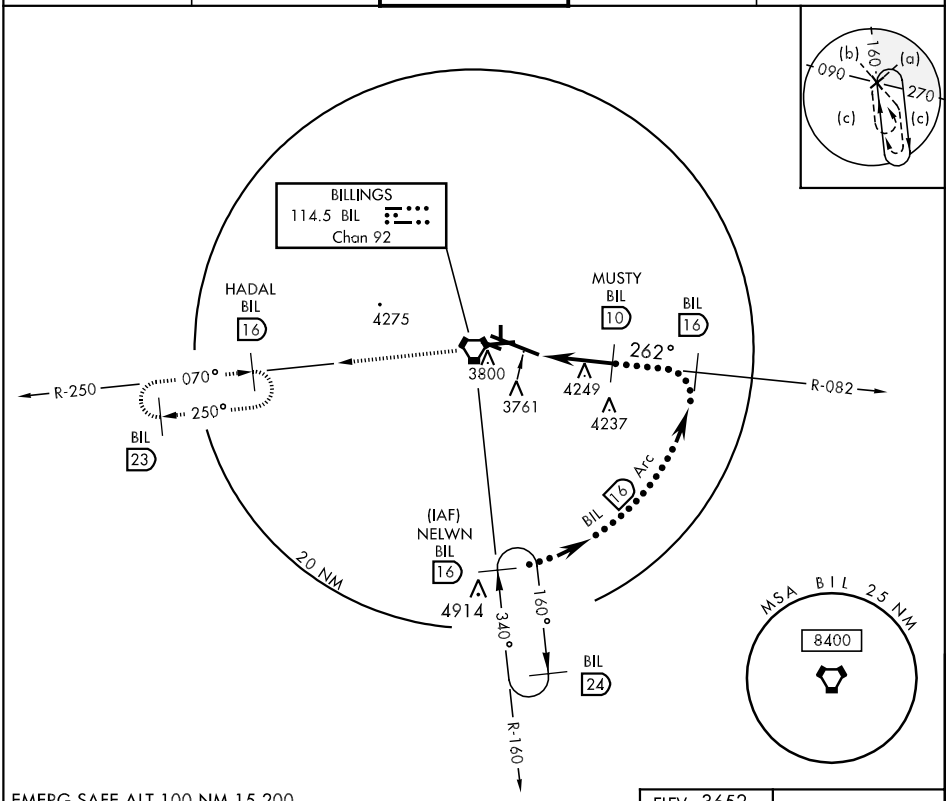
Knots	120	140	160	180	200
Min:Sec	3:09	2:42	2:22	2:06	1:53

HI-VOR/DME or TACAN RWY 28R

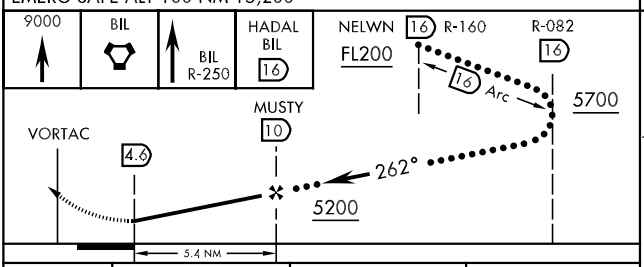
BILLINGS 114.5 Chan 92	APCH CRS 262°	Rwy ldg 10,518 TDZE 3517 Arpt Elev 3652	JAL-48 [USAF]	BILLINGS LOGAN INTL (KBIL)

MISSED APPROACH: Climb to 9000 direct BIL VORTAC then via R-250 to HADAL/16 DME and hold.

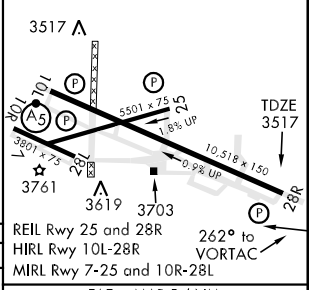
ATIS	BILLINGS APP CON	BILLINGS TOWER	GND CON	CLNC DEL
126.3	120.5 284.6	127.2 257.8	121.9	121.9



EMERG SAFE ALT 100 NM 15,200



ELEV 3652



CATEGORY	C	D	E
S-28R	3940-1¼ 423 (300-1¼)		3940-1½ 423 (300-1½)
CIRCLING	4180-1½ 528 (600-1½)	4220-2 568 (600-2)	4580-3 928 (1000-3)

FAF to MAP 5.4 NM					
Knots	120	140	160	180	200
Min:Sec	2:42	2:19	2:01	1:48	1:37

NW-1, 03 JUN 2010 to 01 JUL 2010

LOC/DME I-BMO	APP CRS	Rwy Idg	10518
111.5	278°	TDZE	3517
Chan 52		Apt Elev	3652

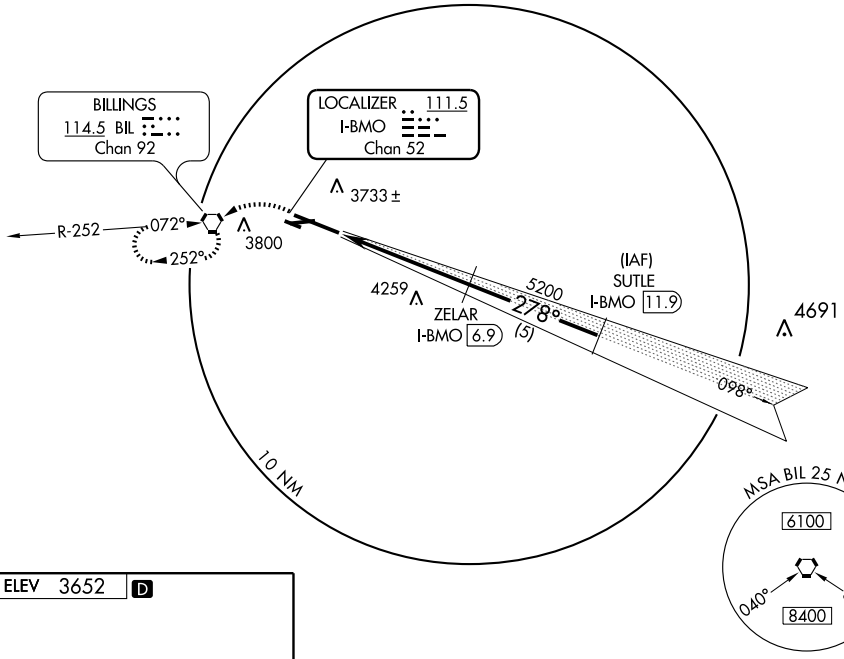
ILS or LOC/DME RWY 28R

BILLINGS LOGAN INTL (BIL)

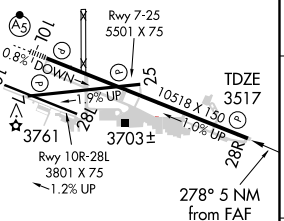
MISSED APPROACH: Climb to 4300 then climbing left turn to 6000 direct BIL VORTAC and hold.

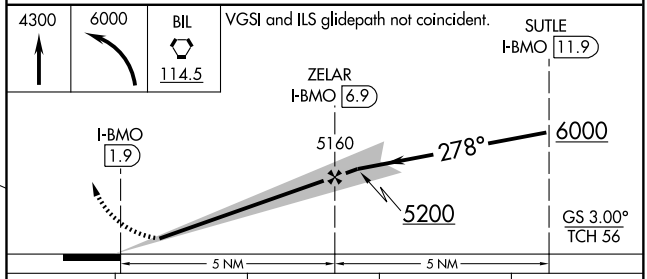
ATIS	BILLINGS APP CON	BILLINGS TOWER	GND CON	CLNC DEL
126.3	120.5 284.6	127.2 257.8	121.9	121.9

RADAR REQUIRED



ELEV 3652 D





CATEGORY	A	B	C	D
S-ILS 28R	3767-1 250 (200-1)			
S-LOC 28R	4000-1 483 (400-1)		4000-1¼ 483 (400-1¼)	4000-1½ 483 (400-1½)
CIRCLING	4160-1 508 (600-1)	4180-1 528 (600-1)	4180-1½ 528 (600-1½)	4220-2 568 (600-2)

REIL Rwys 25 and 28R
HIRL Rwy 10L-28R
MIRL Rwys 7-25 and 10R-28L

NW-1, 03 JUN 2010 to 01 JUL 2010

LOC I-BIL	APP CRS	Rwy Idg	10518
110.3	098°	TDZE	3584
		Apt Elev	3652

ILS or LOC RWY 10L

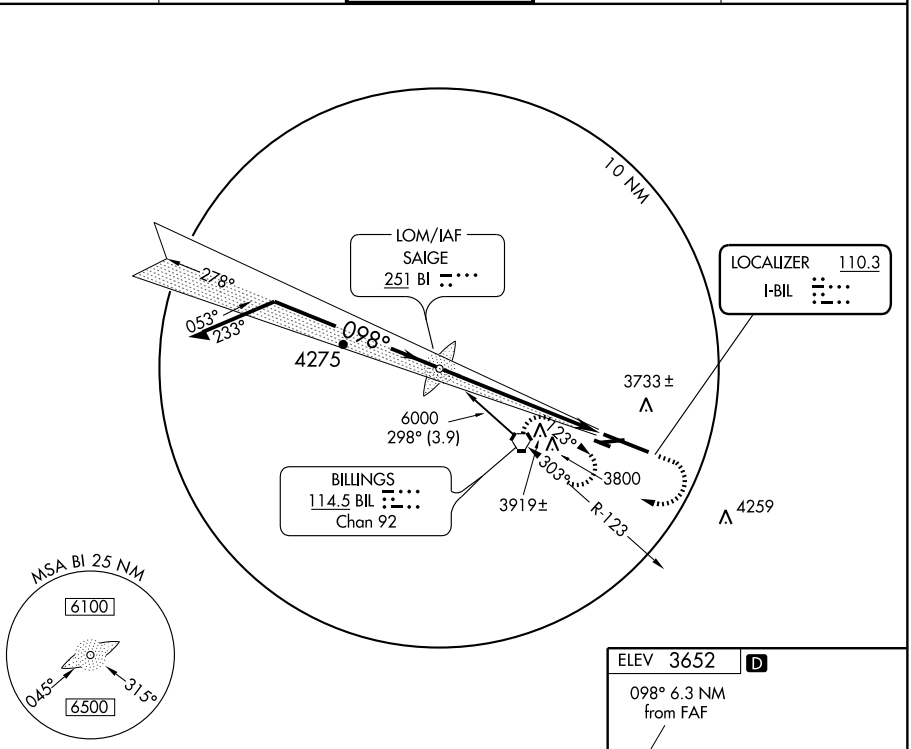
BILLINGS LOGAN INTL (BIL)

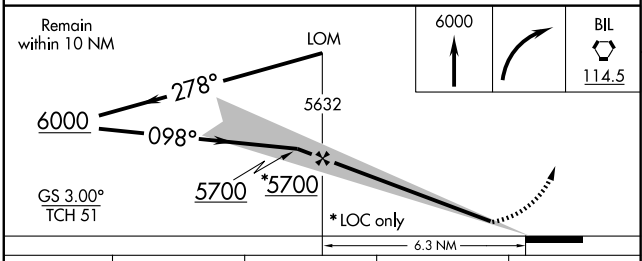
RVR 1800 authorized with the use of FD or AP or HUD to DA.

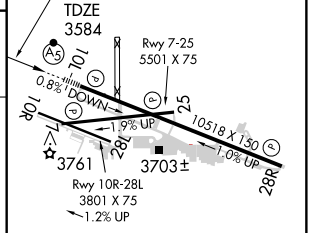
MALSR

MISSED APPROACH: Climb to 6000, then right turn direct BIL VORTAC and hold.

ATIS	BILLINGS APP CON	BILLINGS TOWER	GND CON	CLNC DEL
126.3	120.5 284.6	127.2 257.8	121.9	121.9







CATEGORY	A	B	C	D
S-ILS 10L	# 3784/24 200 (200-½)			
S-LOC 10L	4120/24 536 (500-½)		4120/50 536 (500-1)	4120/60 536 (500-1¼)
CIRCLING	4160-1 508 (600-1)	4180-1 528 (600-1)	4180-1½ 528 (600-1½)	4220-2 568 (600-2)

REIL Rwys 25 and 28R
HIRL Rwy 10L-28R
MIRL Rwys 7-25 and 10R-28L

FAF to MAP 6.3 NM					
Knots	60	90	120	150	180
Min:Sec	6:18	4:12	3:09	2:31	2:06

NW-1, 03 JUN 2010 to 01 JUL 2010

LOM BI	APP CRS	Rwy Idg	10518
251	098°	TDZE	3584
		Apt Elev	3652

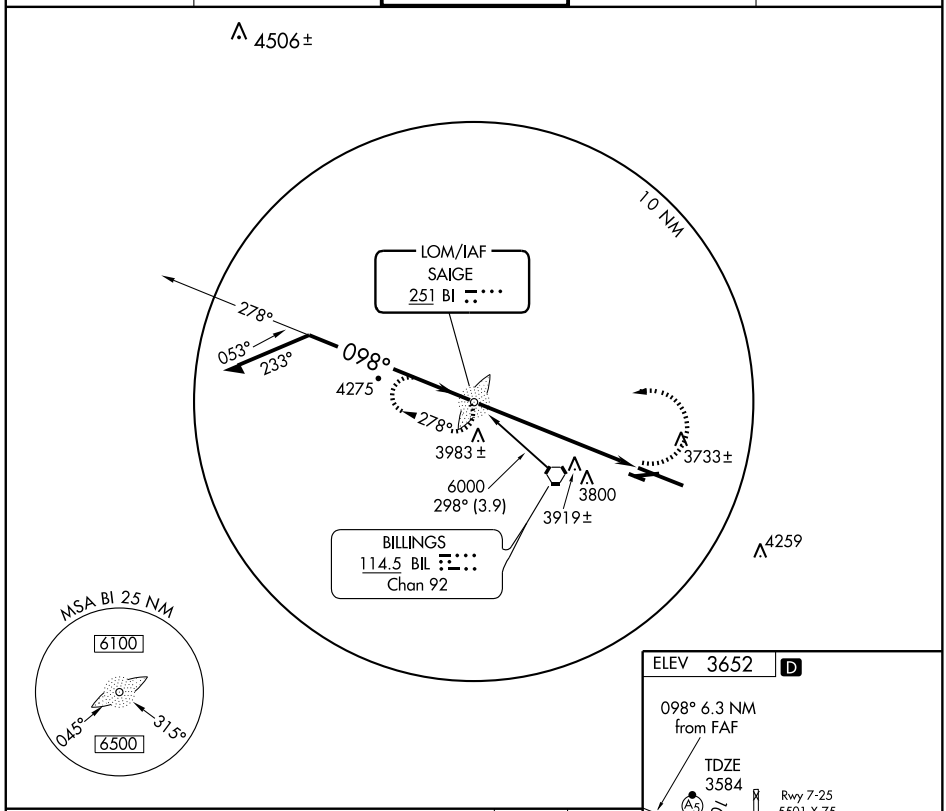
NDB RWY 10L

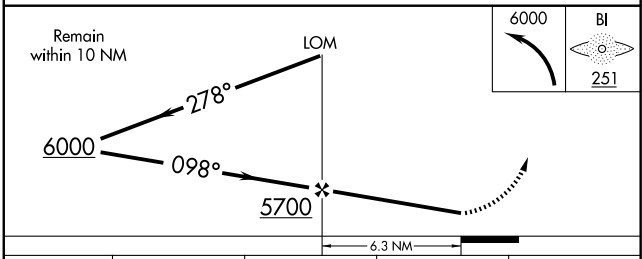
BILLINGS LOGAN INTL (BIL)

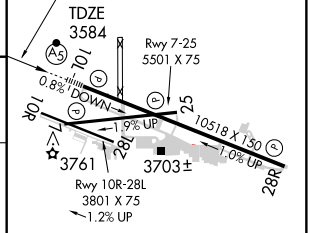
MALSR

MISSED APPROACH: Climbing left turn to 6000 direct Saige LOM and hold.

ATIS	BILLINGS APP CON	BILLINGS TOWER	GND CON	CLNC DEL
126.3	120.5 284.6	127.2 257.8	121.9	121.9







REIL Rwys 25 and 28R
HIRL Rwy 10L-28R
MIRL Rwys 7-25 and 10R-28L

CATEGORY	A	B	C	D
S-10L	4300/40 716 (700-¾)		4300-1½ 716 (700-1½)	4300-2 716 (700-2)
CIRCLING	4300-1 648 (700-1)		4300-2 648 (700-2)	4300-2¼ 648 (700-2¼)

FAF to MAP 6.3 NM

Knots	60	90	120	150	180
Min:Sec	6:18	4:12	3:09	2:31	2:06

NW-1, 03 JUN 2010 to 01 JUL 2010

APP CRS	Rwy ldg	5501
070°	TDZE	3636
	Apt Elev	3652

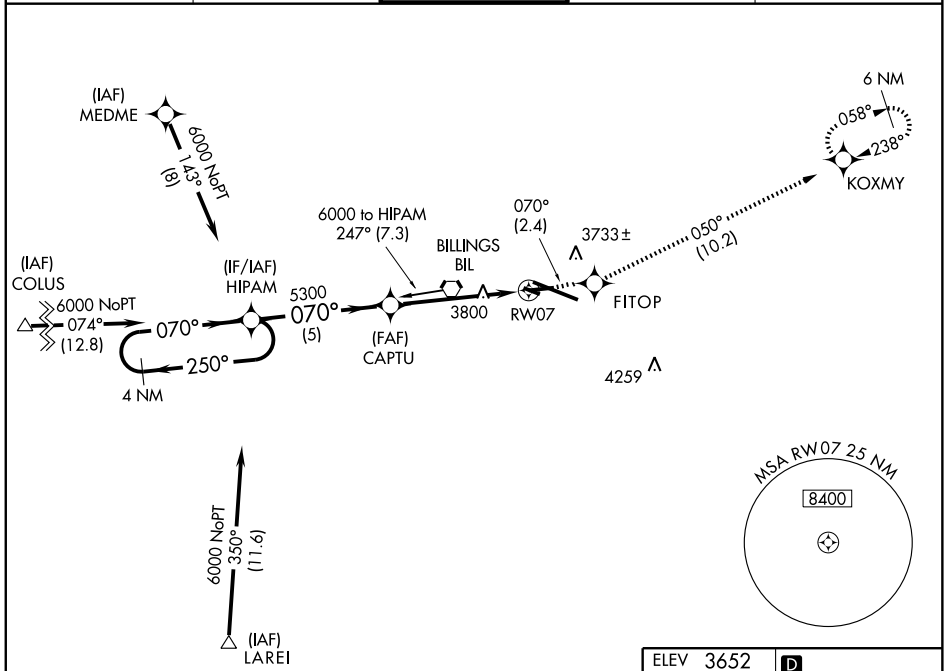
RNAV (GPS) RWY 7

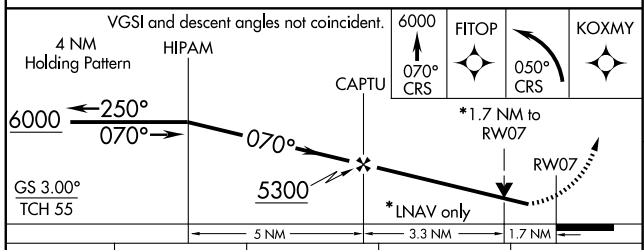
BILLINGS LOGAN INTL (BIL)

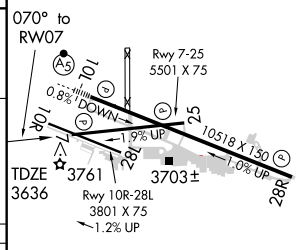
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -22°C (-7°F) or above 41°C (105°F). DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climb to 6000 via 070° course to FITOP, then left turn via 050° course to KOXMY and hold.

ATIS	BILLINGS APP CON	BILLINGS TOWER	GND CON	CLNC DEL
126.3	120.5 284.6	127.2 257.8	121.9	121.9







CATEGORY	A	B	C	D
GLS PA DA	NA			
LNAV/VNAV DA	4209-2 573 (600-2)			
LNAV MDA	4220-1 584 (600-1)		4220-1½ 584 (600-1½)	4220-1¾ 584 (600-1¾)
CIRCLING	4220-1 568 (600-1)		4220-1½ 568 (600-1½)	4220-2 568 (600-2)

REIL Rwys 25 and 28R
HIRL Rwy 10L-28R
MIRL Rwys 7-25 and 10R-28L

NW-1, 03 JUN 2010 to 01 JUL 2010

WAAS CH 50122 W10A	APP CRS 098°	Rwy Idg 10518 TDZE 3584 Apt Elev 3652

RNAV (GPS) RWY 10L

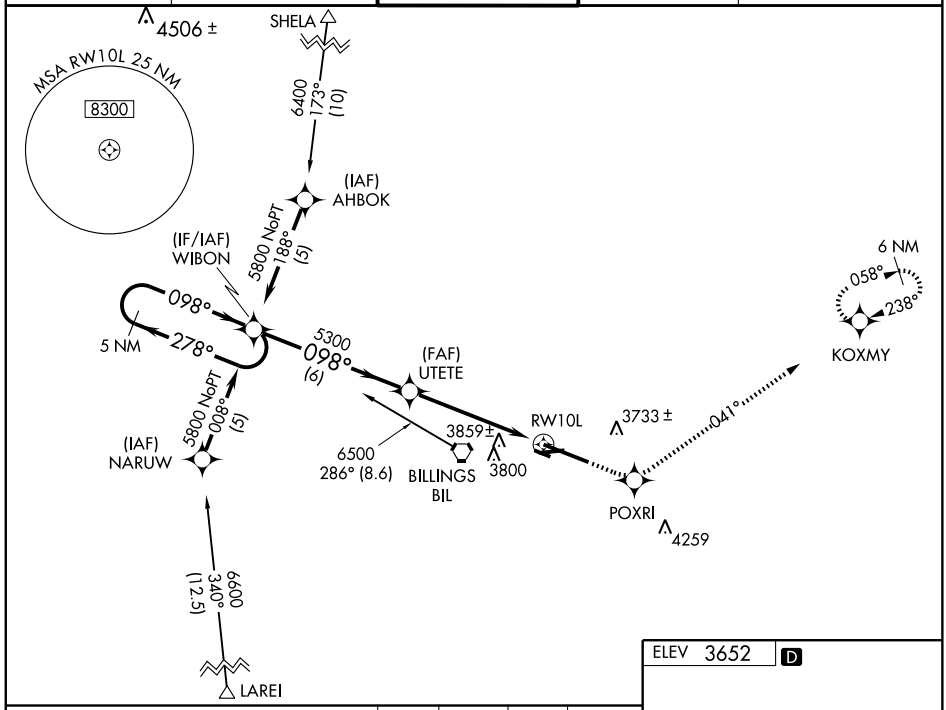
BILLINGS LOGAN INTL (BIL)

Baro-VNAV NA below -22°C (-7°F).
DME/DME RNP- 0.3 NA.
Inoperative table does not apply to LNAV/VNAV.
For inoperative MALSR increase LPV visibility to RVR 6000 all Cats.

MALSR

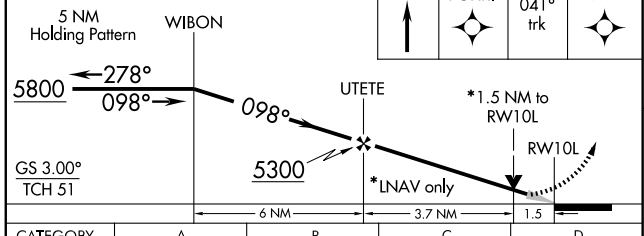
MISSED APPROACH: Climb to 6000 direct POXRI and via 041° track to KOXMY and hold.

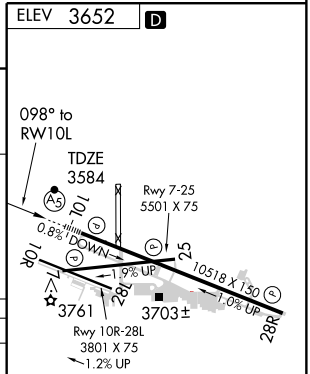
ATIS	BILLINGS APP CON	BILLINGS TOWER	GND CON	CLNC DEL
126.3	120.5 284.6	127.2 257.8	121.9	121.9



VGSI and RNAV glidepath not coincident.

6000	POXRI	041° trk	KOXMY





CATEGORY	A	B	C	D
LPV DA	3950/40 366 (300-¾)			
LNAV/VNAV DA	4200-2¼ 616 (600-2¼)			
LNAV MDA	4120/24 536 (500-½)		4120/50 536 (500-1)	4120/60 536 (500-1¼)
CIRCLING	4200-2¼ 548 (600-2¼)			4220-2¼ 568 (600-2¼)

REIL Rwys 25 and 28R
HIRL Rwy 10L-28R
MIRL Rwys 7-25 and 10R-28L

NW-1, 03 JUN 2010 to 01 JUL 2010

APP CRS	Rwy Idg	TDZE	Apt Elev
250°	5501	3586	3652

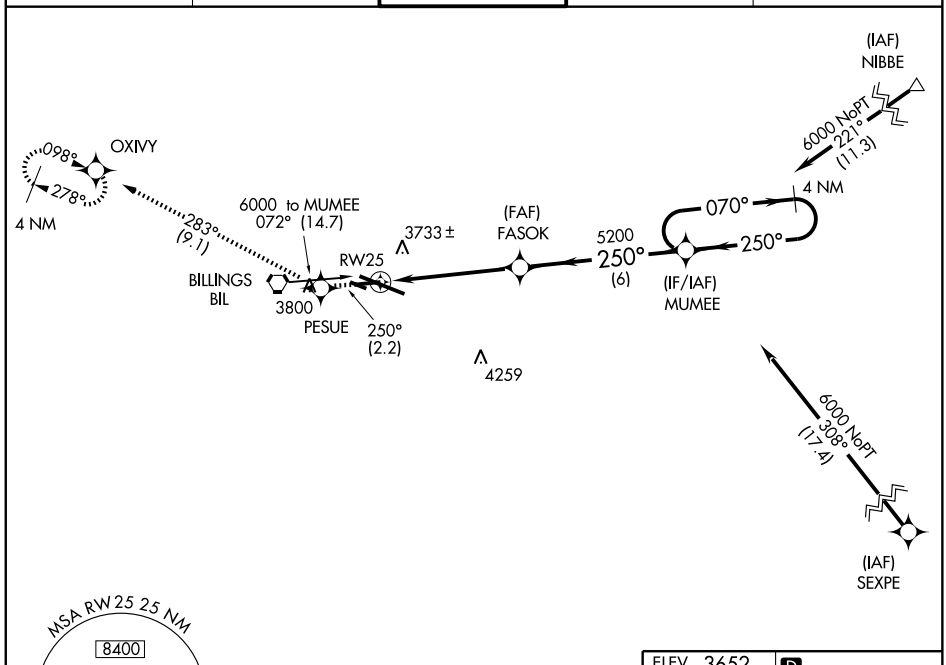
RNAV (GPS) RWY 25

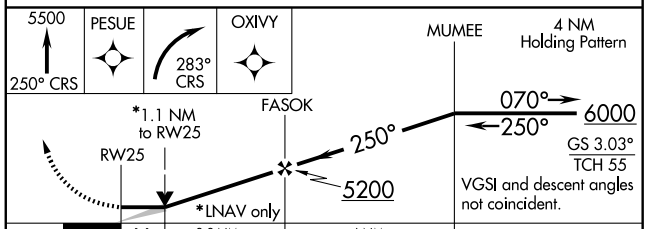
BILLINGS LOGAN INTL (BIL)

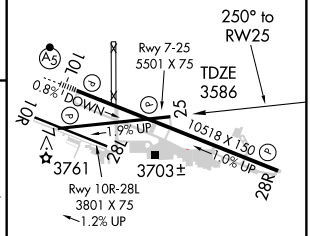
DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climb to 5500 via 250° course to PESUE WP then right turn via 283° course to OXIVY and hold.

ATIS	BILLINGS APP CON	BILLINGS TOWER	GND CON	CLNC DEL
126.3	120.5 284.6	127.2 257.8	121.9	121.9







CATEGORY	A	B	C	D
LNAV MDA	4020-1 434 (400-1)		4020-1¼ 434 (400-1¼)	4020-1½ 434 (400-1½)
CIRCLING	4160-1¼ 508 (600-1¼)	4180-1¼ 528 (600-1¼)	4180-1½ 528 (600-1½)	4220-2 568 (600-2)

REIL Rwys 25 and 28R
HIRL Rwy 10L-28R
MIRL Rwys 7-25 and 10R-28L

NW-1, 03 JUN 2010 to 01 JUL 2010

WAAS CH 56222 W28A	APP CRS 278°	Rwy Idg 10518 TDZE 3517 Apt Elev 3652

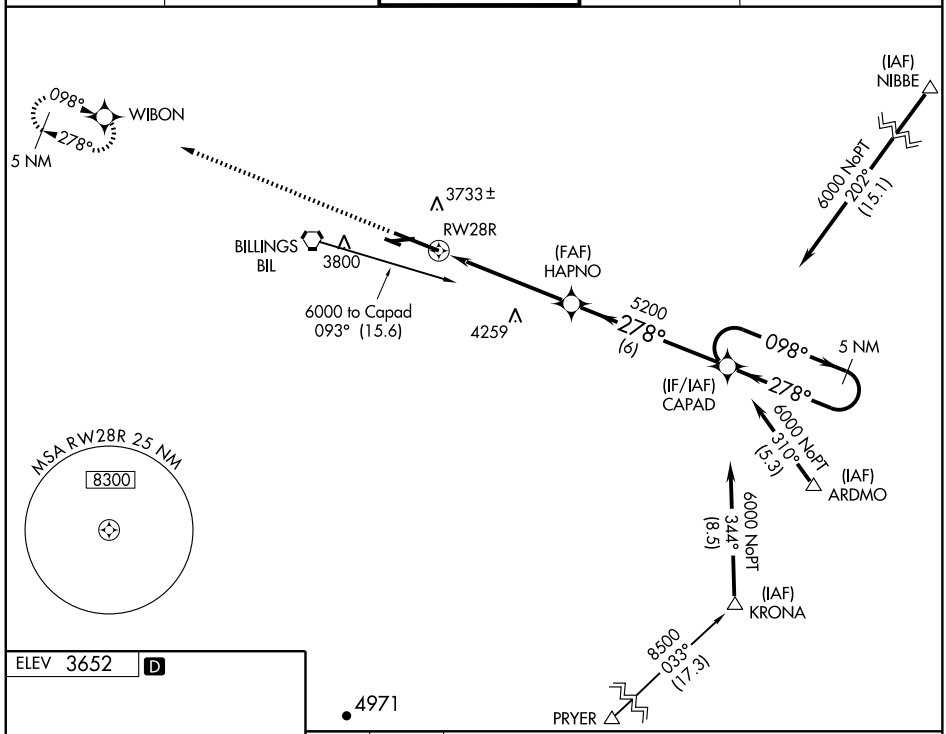
RNAV (GPS) RWY 28R

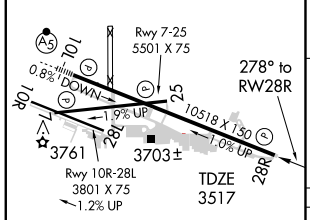
BILLINGS LOGAN INTL (BIL)

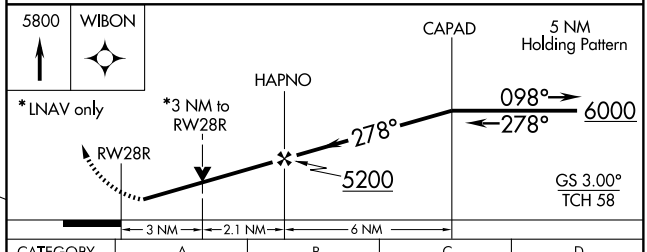
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -22°C (-7°F) or above 41°C (105°F). DME/DME RNP- 0.3 NA

MISSED APPROACH: Climb to 5800 direct WIBON and hold.

ATIS	BILLINGS APP CON	BILLINGS TOWER	GND CON	CLNC DEL
126.3	120.5 284.6	127.2 257.8	121.9	121.9







CATEGORY	A	B	C	D
LPV DA	3770-1 253 (200-1)			
LNAV/VNAV DA	3840-1¼ 323 (200-1¼)			
LNAV MDA	4500-1¼ 983 (900-1¼)	4500-1½ 983 (900-1½)	4500-3 983 (900-3)	
CIRCLING	4500-1¼ 848 (900-1¼)	4500-1½ 848 (900-1½)	4500-3 848 (900-3)	

REIL Rwys 25 and 28R
HIRL Rwy 10L-28R
MIRL Rwys 7-25 and 10R-28L

NW-1, 03 JUN 2010 to 01 JUL 2010

BILLINGS, MONTANA

AL-48 (FAA)

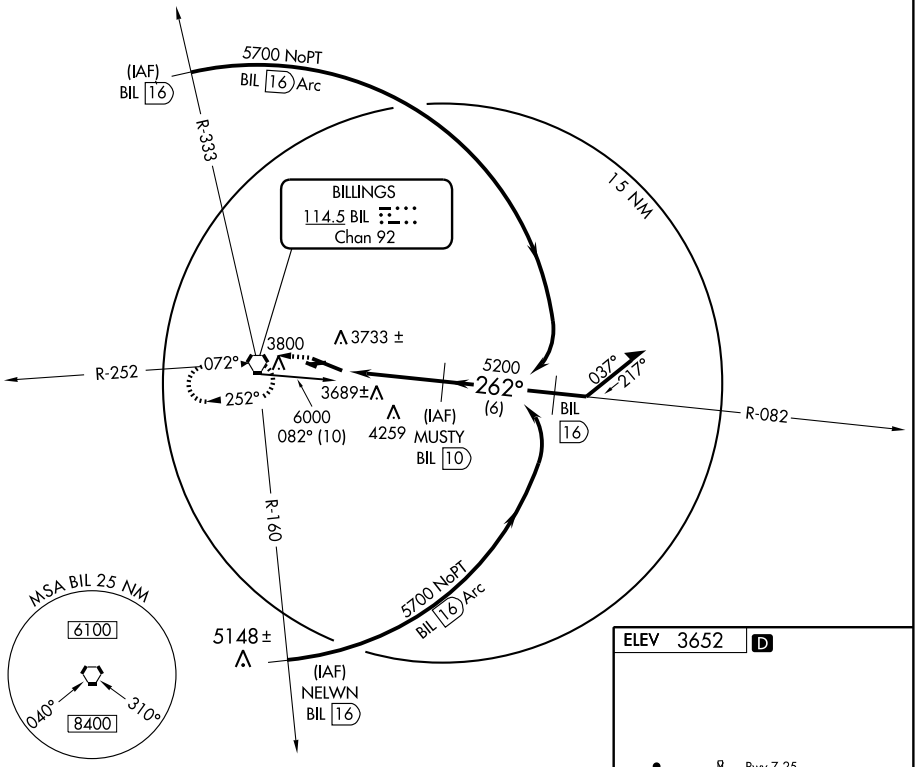
VORTAC BIL 114.5 Chan 92	APP CRS 262°	Rwy Idg 10518 TDZE 3517 Apt Elev 3652

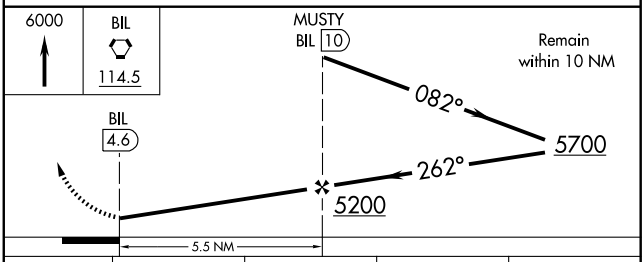
VOR/DME RWY 28R

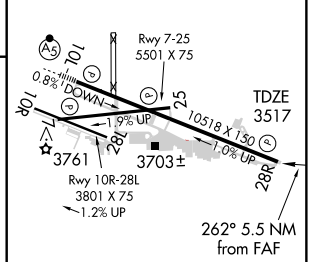
BILLINGS LOGAN INTL (BIL)

MISSED APPROACH: Climb to 6000 direct BIL VORTAC and hold.

ATIS	BILLINGS APP CON	BILLINGS TOWER	GND CON	CLNC DEL
126.3	120.5 284.6	127.2 257.8	121.9	121.9







CATEGORY	A	B	C	D
S-28R	4040-1	523 (400-1)	4040-1½ 523 (400-1½)	4040-1¾ 523 (400-1¾)
CIRCLING	4160-1 508 (600-1)	4180-1 528 (600-1)	4180-1½ 528 (600-1½)	4220-2 568 (600-2)

REIL Rwys 25 and 28R
HIRL Rwy 10L-28R
MIRL Rwys 7-25 and 10R-28L

NW-1, 03 JUN 2010 to 01 JUL 2010

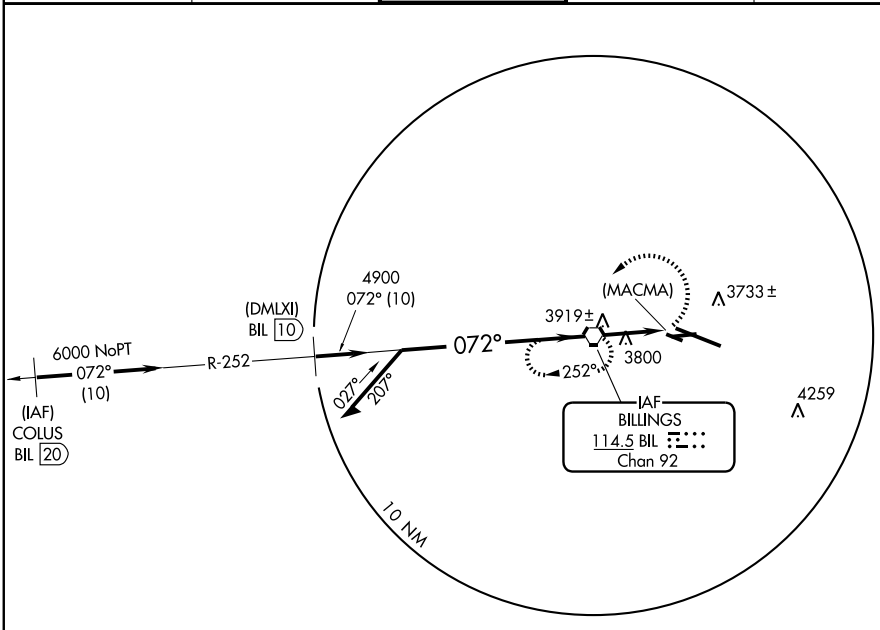
VORTAC BIL 114.5 Chan 92	APP CRS 072°	Rwy Idg N/A TDZE N/A Apt Elev 3652

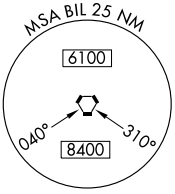
VOR or GPS-A

BILLINGS LOGAN INTL (BIL)

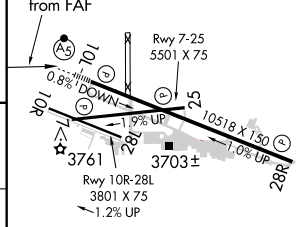
MISSED APPROACH: Climbing left turn to 6000 direct BIL VORTAC and hold.

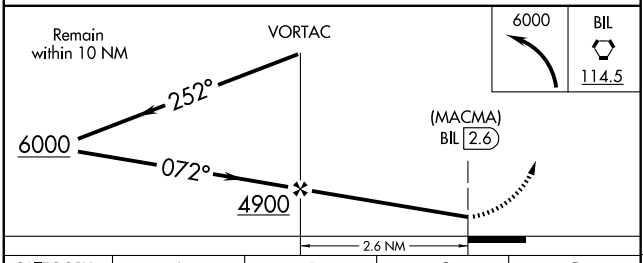
ATIS	BILLINGS APP CON	BILLINGS TOWER	GND CON	CLNC DEL
126.3	120.5 284.6	127.2 257.8	121.9	121.9





5148±





REIL Rwys 25 and 28R
HIRL Rwy 10L-28R
MIRL Rwys 7-25 and 10R-28L

CATEGORY	A	B	C	D
CIRCLING	4180-1 528 (600-1)		4180-1½ 528 (600-1½)	4220-2 568 (600-2)

FAF to MAP 2.6 NM

Knots	60	90	120	150	180
Min:Sec	2:36	1:44	1:18	1:02	0:52

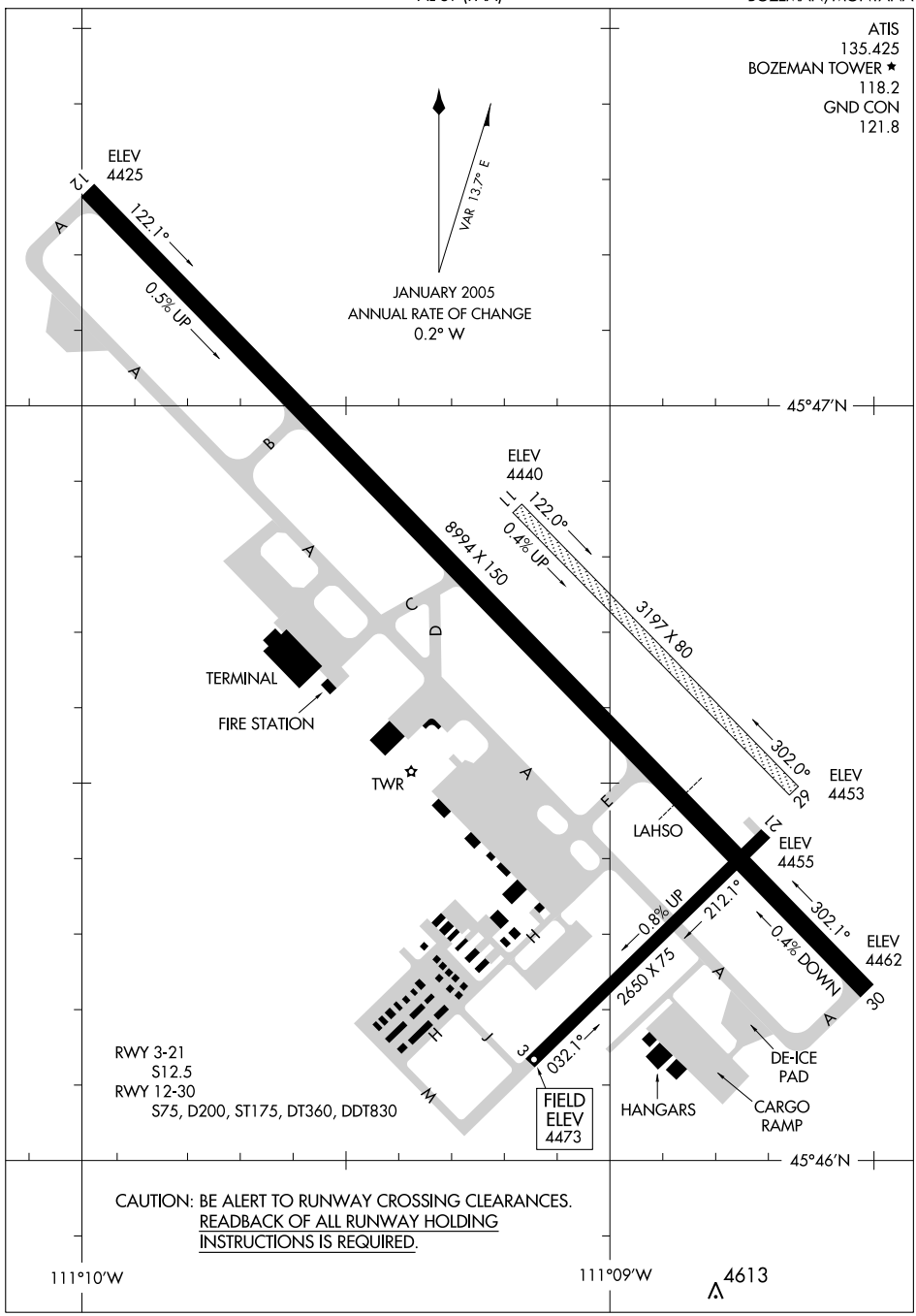
NW-1, 03 JUN 2010 to 01 JUL 2010

10098

AIRPORT DIAGRAM

AL-59 (FAA)

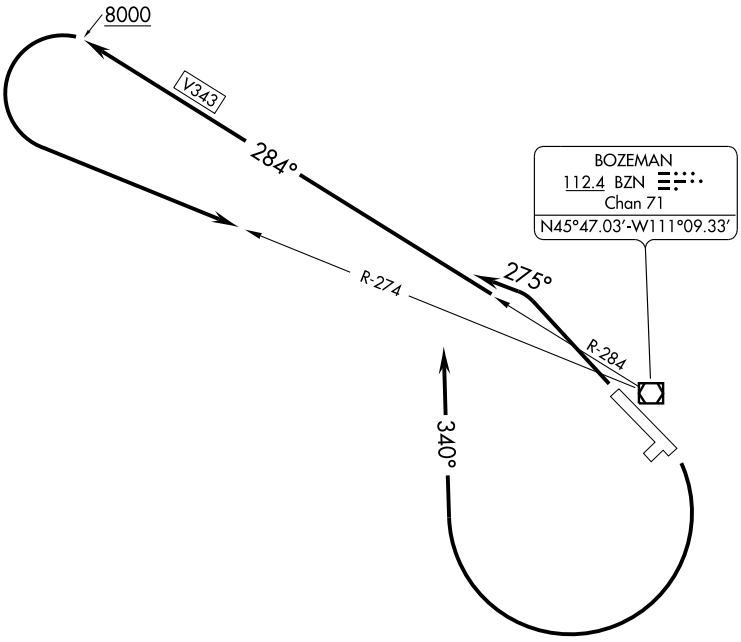
BOZEMAN/GALLATIN FIELD (BZN)
BOZEMAN, MONTANA



NW-1, 03 JUN 2010 to 01 JUL 2010

BOZEMAN ONE DEPARTURE (OBSTACLE)

ATIS 135.425
GND CON
121.8
BOZEMAN TOWER ★
118.2 (CTAF)
SALT LAKE CITY CENTER
132.4 338.3



TAKE-OFF MINIMUMS
Rwy 3, 21: NA - ATC.
Rwy 12, 30: Standard

TAKE-OFF OBSTACLE NOTES
Rwy 30: Pole 636' from DER, 622' left of centerline, 62' AGL/4452' MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 12: Climbing right turn heading 340° to intercept BZN R-284 outbound to 8000. Aircraft departing westbound via V343 climb on course, all others continue climbing left turn to intercept BZN R-274 to BZN VOR/DME, cross BZN VOR/DME at or above MCA or MEA for route of flight.

TAKE-OFF RUNWAY 30: Climbing left turn heading 275° to intercept BZN R-284 outbound to 8000. Aircraft departing westbound via V343 climb on course, all others continue climbing left turn to intercept BZN R-274 to BZN VOR/DME, cross BZN VOR/DME at or above MCA or MEA for route of flight.

NW-1, 03 JUN 2010 to 01 JUL 2010

LOC I-BZN	APP CRS	Rwy Idg	8994
109.3	118°	TDZE	4439
		Apt Elev	4474

ILS RWY 12

BOZEMAN/GALLATIN FIELD (BZN)

Increase S-LOC 12 Cat D visibility ¼ mile for inoperative MALSR.

MALSR

MISSED APPROACH: Climb to 5000, then climbing right turn to 8000 direct BZ LOM and hold.

ATIS	SALT LAKE CENTER	BOZEMAN TOWER★	GND CON	UNICOM
135.425	132.4 338.3	118.2 (CTAF) L	121.8	122.95

ADF REQUIRED

7615 6000 7000 8000 5000 6180 8471 8880 9650 9159 5884 5082 5933± 4793

R-320 298° 7133 6442 (IAF) MENAR 8300 BZN 14 Arc 5695 6800 NoPT 118° (8.2) 7300 060°(5.1) FALIA INT HIA 32 R-060 073° 253° 9700 060° (26.9) (IAF) THESE HIA 26.9 9300 165° (7.1) LR-306 6800 NoPT 118° (6.4) R-284 298°

WHITEHALL 113.7 HIA Chan 84

LOM/IAF MANNI 266 BZ BZN 7.6

BOZEMAN 112.4 BZN Chan 71

7300 297°(7.6)

LOCALIZER 109.3 I-BZN

10 NM

MSA BZ 25 NM

180°		
8800		10800
090°		270°
11200		12100
360°		

ELEV 4474

118° 7.1 NM from FAF

TDZE 4439

0.5% UP

8994 X 150

0.4% DOWN

3197 X 80

0.4% UP

2650 X 75

0.7% UP

12 21 30 3

TWR 4609

4613

REIL Rwy 30 L

HIRL Rwy 12-30 L

Remain within 10 NM

LOM BZN 7.6

298° 7300 118° 6779 6800

GS 3.00° TCH 53

BZN 0.5

7.1 NM

5000 8000 BZ 266

FAF to MAP 7.1 NM					
Knots	60	90	120	150	180
Min:Sec	7:06	4:44	3:33	2:50	2:22

CATEGORY	A	B	C	D
S-ILS 12	4650-½ 211 (200-½)			
S-LOC 12	4760-½ 321 (300-½)			4760-¾ 321 (300-¾)
CIRCLING	4940-1 466 (500-1)		4940-1½ 466 (500-1½)	5040-2 566 (600-2)

NW-1, 03 JUN 2010 to 01 JUL 2010

APP CRS	Rwy Idg	N/A
298°	TDZE	N/A
	Apt Elev	4474

RNAV (GPS)-A

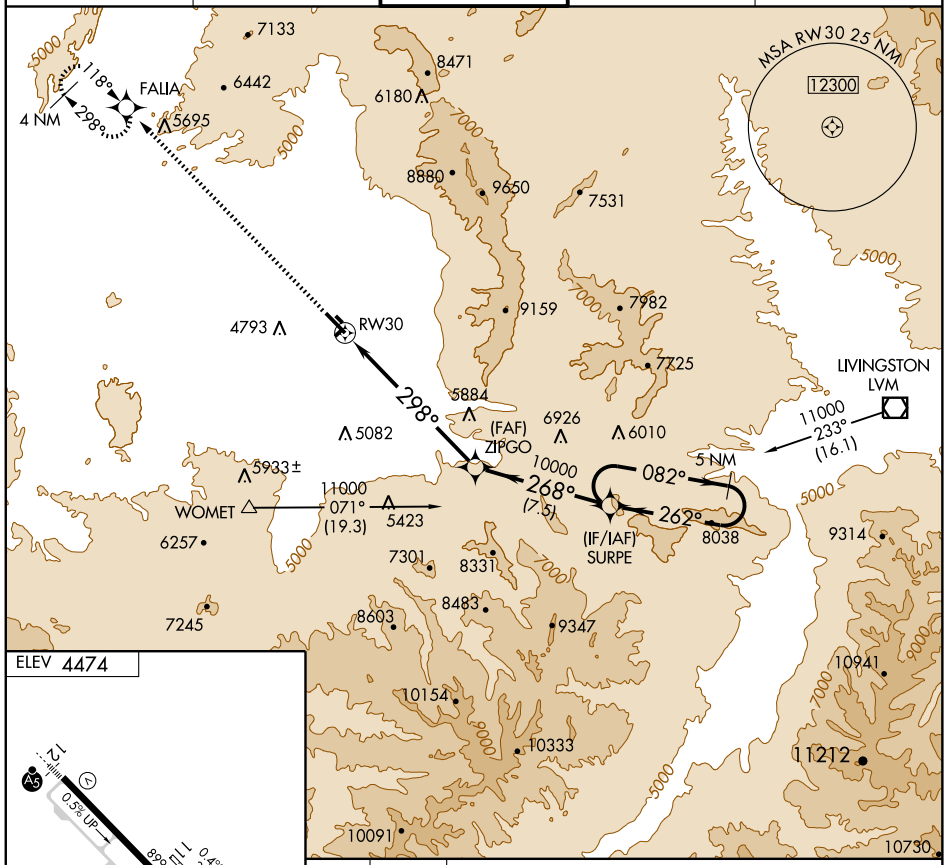
BOZEMAN/GALLATIN FIELD (BZN)

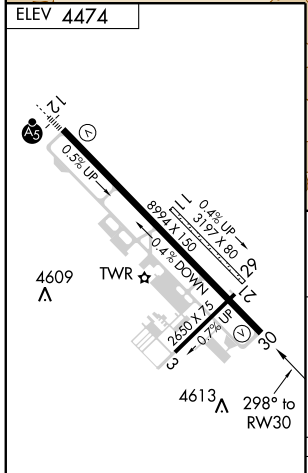
T
A NA

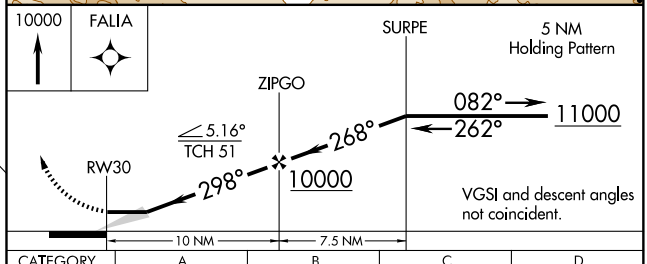
GPS or RNP- 0.3 required. DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climb to 10000 direct FALIA WP and hold.

ATIS	SALT LAKE CENTER	BOZEMAN TOWER★	GND CON	UNICOM
135.425	132.4 338.3	118.2 (CTAF) L	121.8	122.95







CATEGORY	A	B	C	D
CIRCLING	6380-1¼ 1906 (2000-1¼)	6380-1½ 1906 (2000-1½)	6380-3 1906 (2000-3)	

REIL Rwy 30 L
HIRL Rwy 12-30 L

NW-1, 03 JUN 2010 to 01 JUL 2010

VOR/DME BZN 112.4 Chan 71	APP CRS 109°	Rwy Idg 8994 TDZE 4439 Apt Elev 4474

VOR/DME or GPS RWY 12

BOZEMAN/ GALLATIN FIELD (BZN)

MALSR

MISSED APPROACH: Climb to 5300, then a climbing right turn to 9200 via heading 350° to intercept BZN R-320, then via BZN R-320 to MENAR Int and hold.

ATIS	SALT LAKE CENTER	BOZEMAN TOWER★	GND CON	UNICOM
135.425	132.4 338.3	118.2 (CTAF) L	121.8	122.95

8300 to BZN 14 DME 064° (2.3) and 109° (3.3)

R-289

R-060

9700 060° (26.9)

(IAF) THESE HIA 26.9

R-284

(DMMCL)

8300 BZN 14 ARC

6442

5695

(IAF) (NURHE)

140° 320°

MENAR BZN 13.4

7133

(DMJLG) BZN 14

(CFKSH) BZN 10

7100 109° (4)

5900 109° (4)

R-320

WHITEHALL 113.7 HIA Chan 84

BOZEMAN 112.4 BZN Chan 71

(EHUTU) BZN 6

MSA BZN 25 NM

170°

9600 10800

080° 260°

12100

4793

4584±

(MADSE)

10 NM

5082

5933±

7615

6080

7000

8471

6180

8880

9650

9159

5884

5000

6000

8000

ELEV 4474

109° 5.5 NM from FAF

TDZE 4439

0.5% UP

8994 X 150

0.4% UP

3197 X 80

0.4% DOWN

2650 X 75

0.7% UP

TWR

4609

4613

5300	9200	BZN R-320 112.4	MENAR
↑	350°		△

(DMJLG) BZN 14 — 8300

(CFKSH) BZN 10 — 109° — 7100

(EHUTU) BZN 6 — 5900

(MADSE) BZN 1 — VOR/DME

Procedure Turn NA

4 NM 4 NM 5 NM 0.5

CATEGORY	A	B	C	D
S-12	4900-½ 461 (500-½)		4900-¾ 461 (500-¾)	4900-1 461 (500-1)
CIRCLING	4940-1 466 (500-1)		4940-1½ 466 (500-1½)	5040-2 566 (600-2)

REIL Rwy 30 L

HIRL Rwy 12-30 L

NW-1, 03 JUN 2010 to 01 JUL 2010

VOR/DME BZN	APP CRS	Rwy Idg	8994
112.4	101°	TDZE	4439
Chan 71		Apt Elev	4474

VOR RWY 12

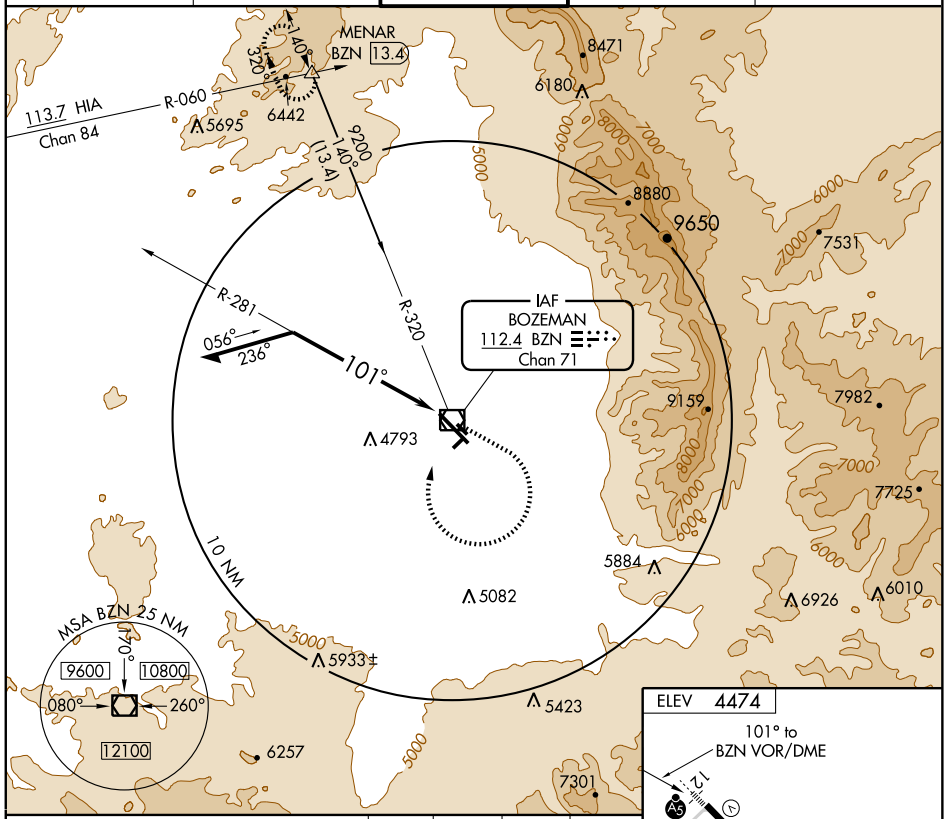
BOZEMAN/GALLATIN FIELD (BZN)

T A Inoperative table does not apply.

MALSR

MISSED APPROACH: Climb to 5300, then climbing right turn to 9200 via heading 350° to intercept BZN R-320, then via BZN R-320 to MENAR Int and hold.

ATIS	SALT LAKE CENTER	BOZEMAN TOWER*	GND CON	UNICOM
135.425	132.4 338.3	118.2 (CTAF) L	121.8	122.95



Remain within 10 NM

* VOR/DME

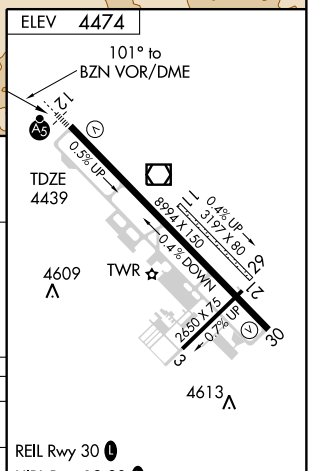
281°

6200

101°

5300	9200	BZN	MENAR
	350°	R-320	
		112.4	

*Maintain 7000 or above until established outbound for procedure turn.



CATEGORY	A	B	C	D
S-12	5240-1 801 (800-1)	5240-1¼ 801 (800-1¼)	5240-2¼ 801 (800-2¼)	5240-2½ 801 (800-2½)
CIRCLING	5240-1 766 (800-1)	5240-1¼ 766 (800-1¼)	5240-2¼ 766 (800-2¼)	5240-2½ 766 (800-2½)

REIL Rwy 30 L

HIRL Rwy 12-30 L

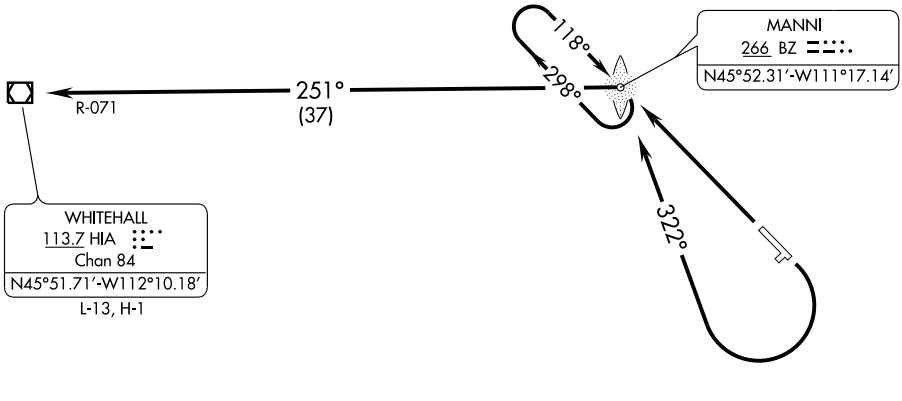
NW-1, 03 JUN 2010 to 01 JUL 2010

WHITEHALL ONE DEPARTURE

SL-59 (FAA)

BOZEMAN/ GALLATIN FIELD (BZN)
BOZEMAN, MONTANA

ATIS 135.425
GND CON
121.8
BOZEMAN TOWER ★
118.2 (CTAF)
SALT LAKE CITY CENTER
132.4 338.3



NOTE: ADF REQUIRED

TAKE-OFF MINIMUMS
Rwy 3, 21: NA - ATC.
Rwy 12: Standard
Rwy 30: Standard with minimum climb of 294' per NM to 6500.

TAKE-OFF OBSTACLE NOTES
Rwy 30: Pole 636' from DER, 622' left of centerline, 62' AGL/4452' MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 12: Climbing right turn to intercept 322° course to MANNI LOM. Climb in MANNI LOM holding pattern to at or above 8500, then intercept HIA R-071 to HIA VOR/DME, cross HIA VOR/DME at or above MCA or MEA for route of flight.

TAKE-OFF RUNWAY 30: Climbing left turn direct MANNI LOM. Climb in MANNI LOM holding pattern to at or above 8500, then intercept HIA R-071 to HIA VOR/DME, cross HIA VOR/DME at or above MCA or MEA for route of flight.

NW-1, 03 JUN 2010 to 01 JUL 2010

LOC/DME I-BEY	APP CRS	Rwy Idg	9001
110.9	151°	TDZE	5523
Chan 46		Apt Elev	5550

ILS Y RWY 15

BUTTE/ BERT MOONEY (BTM)

Circling NA northeast of Rwy 15-33.
When glideslope not used, use LOC/DME RWY 15 procedure.
Circling requires descent on glideslope to MDA.
Autopilot coupled approach NA.

MISSED APPROACH: Climb to 7300 then climbing right turn to 9100 via CPN VOR/DME R-113 to CPN VOR/DME and hold.

ASOS	SALT LAKE CENTER	UNICOM
135.175	132.4 338.3	123.0 (CTAF) L

DME REQUIRED

MSA CPN 25 NM
165°
10100
275°
12000
10 NM
331°
151°
1 min
(IAF)
NIYID
CPN 17
EVVER
CPN 22.5
11500
207°
(5.5)
10000 NoPT
207°
(6.1)
(IF/IAF)
MAGIC INT
I-BEY 13.9
7860
9800
151° (1)
7780
KEVTE
I-BEY 12.8
8000
151°
(3.1)
R-027
YADUL
I-BEY 9.7
7265
7900
(1.8)
HUBDU
I-BEY 7.9
7500
(1.1)
GEYGE
I-BEY 6.9
7765
7100
(1.1)
WELDU
I-BEY 5.8
6250
8462
8625
8560
8225
8819
8597
8460
8752
7000
8000
R-346
166°
346°
10000
027°
(10.9)
COPPERTOWN
111.6 CPN
Chan 53
7766
6248
6345
5755
R-113
LOCALIZER 110.9
I-BEY
Chan 46
WHITEHALL
113.7 HIA
Chan 84
10900 to MAGIC
300°
(24.6)

ELEV 5550 D

TDZE
5523
15
33
0.6% UP
9001 X 150
5100 X 75
5573 ±
5590
29

REIL Rwys 11, 15 and 29 L
MIRL Rwys 11-29 and 15-33 L

One Minute Holding Pattern
MAGIC INT I-BEY 13.9
KEVTE I-BEY 12.8
YADUL I-BEY 9.7
HUBDU I-BEY 7.9
GEYGE I-BEY 6.9
WELDU I-BEY 5.8
10000
331°
151°
9800
8600
7900
7500
7100
GS 3.50°
TCH 55
7300
9100
CPN
R-113
CPN
111.6
1 NM 3.1 NM 1.8 1.1 1.1 4.1 NM

CATEGORY	A	B	C	D
S-ILS 15	6711-4 1188 (1200-4)			NA
CIRCLING	6720-4 1170 (1200-4)			NA

NW-1, 03 JUN 2010 to 01 JUL 2010

LOC/DME I-BEY	APP CRS	Rwy Idg	9001
110.9	151°	TDZE	5523
Chan 46		Apt Elev	5550

LOC/DME RWY 15

BUTTE/ BERT MOONEY (BTM)

Circling not authorized NE of Rwy 15-33.
If local altimeter setting not received, procedure NA.

MISSED APPROACH: Climbing right turn to 9200 direct CPN VOR/DME and hold.

ASOS	SALT LAKE CENTER	UNICOM
135.175	132.4 338.3	123.0 (CTAF) L

Identify ZIPPR INT with CPN R-038 and HIA R-297 prior to procedure turn; MRA HIA R-297 at ZIPPR 11000 feet.

MSA CPN 25 NM
165° 10100
275° 12000

10 NM
331° 106° 286° 151°
GUYEC I-BEY 14
(IAF)
ZIPPR INT I-BEY 11.7
R-038 11000 038° (9.9)
VIVVU I-BEY 7.8
OM
R-346 166° 346°
R-297 297° (22.8) 11000

COPPERTOWN 111.6 CPN Chan 53

WHITEHALL 113.7 HIA Chan 84

LOCALIZER 110.9 I-BEY Chan 46

8597 8752 8460 7860 7780 8819 7265 6924± 6538± 6250 7765 8625 8560 8462 7766 6248 6345 8225 5755 7433

ELEV 5550 D

151° 10 NM from FAF

TDZE 5523

0.6% UP 9001 X 150

5100 X 75

5573± 5590

15 29 33

Remain within 10 NM

ZIPPR INT I-BEY 11.7

331° 151°

GUYEC I-BEY 14

VIVVU I-BEY 7.8

I-BEY 5.1

I-BEY 1.7

10000 9600 9200 7780

3.43° TCH 55

2.3 NM 3.9 NM 2.7 NM 3.3 NM

9200 CPN 111.6

CATEGORY	A	B	C	D
S-LOC 15	6800-1¼ 1277 (1300-1¼)	6800-1½ 1277 (1300-1½)	6800-3	1277 (1300-3)
CIRCLING	6800-1¼ 1250 (1300-1¼)	6800-1½ 1250 (1300-1½)	6800-3	1250 (1300-3)

REIL Rwys 11, 15 and 29 L
MIRL Rwys 11-29 and 15-33 L

NW-1, 03 JUN 2010 to 01 JUL 2010

APP CRS	Rwy Idg	9001
136°	TDZE	5523
	Apt Elev	5550

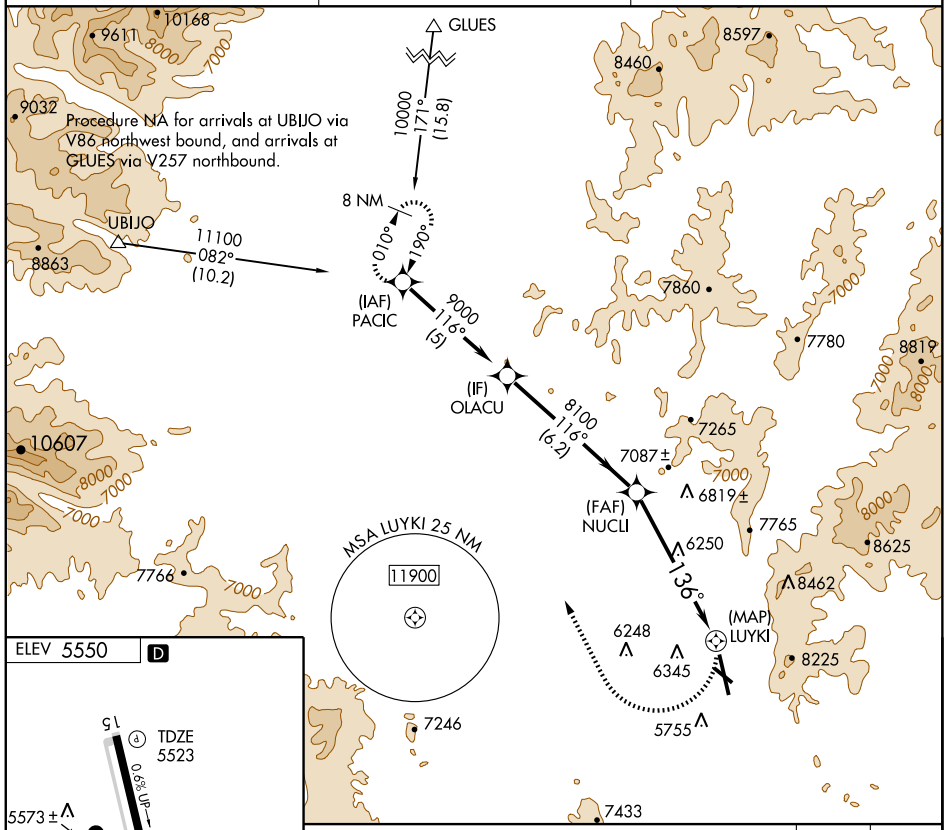
RNAV (GPS) Y RWY 15

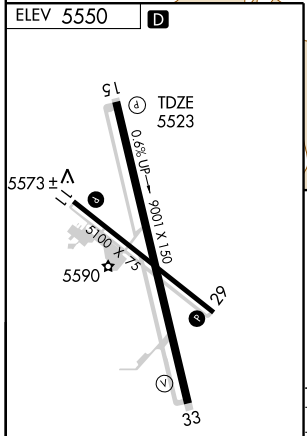
BUTTE/ BERT MOONEY (BTM)

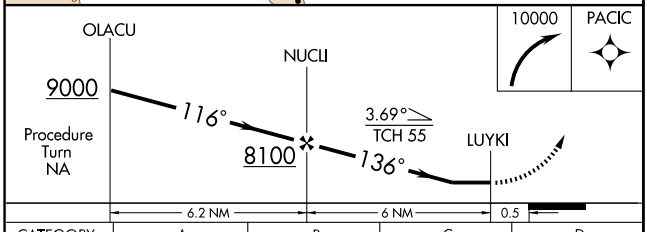
Circling NA northeast of Rwy 15-33.
DME/DME RNP -0.3 NA.
Visibility reduction by helicopters NA.
If local altimeter setting not received, procedure NA.

MISSED APPROACH: Climbing right turn to 10000 direct PACIC and hold.

ASOS	SALT LAKE CENTER	UNICOM
135.175	132.4 338.3	123.0 (CTAF) L







CATEGORY	A	B	C	D
LNAV MDA	7040-1¼ 1517 (1500-1¼)	7040-1½ 1517 (1500-1½)	7040-3 1517 (1500-3)	NA
CIRCLING	7040-1¼ 1490 (1500-1¼)	7040-1½ 1490 (1500-1½)	7040-3 1490 (1500-3)	

REIL Rwys 11, 15 and 29 L
MIRL Rwys 11-29 and 15-33 L

NW-1, 03 JUN 2010 to 01 JUL 2010

WAAS	APP CRS	Rwy Idg	9001
CH 50599	151°	TDZE	5523
W15A		Apt Elev	5550

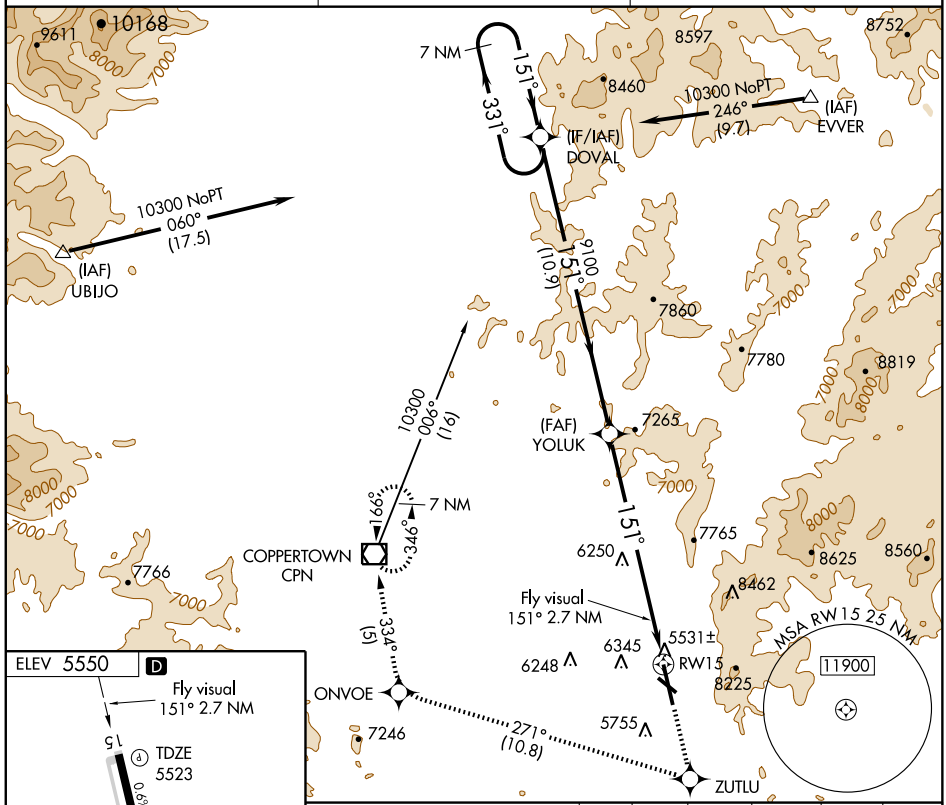
RNAV (GPS) Z RWY 15

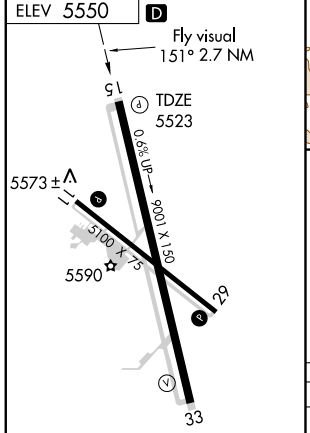
BUTTE/BERT MOONEY (BTM)

T
A
DME/DME RNP- 0.3 NA.
If local altimeter setting not received, procedure NA.

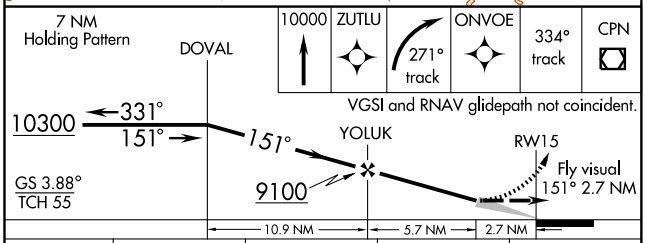
MISSED APPROACH: Climb to 10000 direct ZUTLU and right turn via 271° track to ONVOE and via 334° track to CPN VOR/DME and hold, continue climb-in-hold to 10000.

ASOS	SALT LAKE CENTER	UNICOM
135.175	132.4 338.3	123.0 (CTAF) L





REIL Rwys 11, 15 and 29 L
MIRL Rwys 11-29 and 15-33 L



CATEGORY	A	B	C	D
LPV DA	6660-2	1137 (1200-2)		NA
LNAV/VNAV DA	NA			
LNAV MDA	NA			
CIRCLING	NA			

NW-1, 03 JUN 2010 to 01 JUL 2010

VOR/DME HIA	APP CRS	Rwy Idg	N/A
113.7	272°	TDZE	N/A
Chan 84		Apt Elev	5545

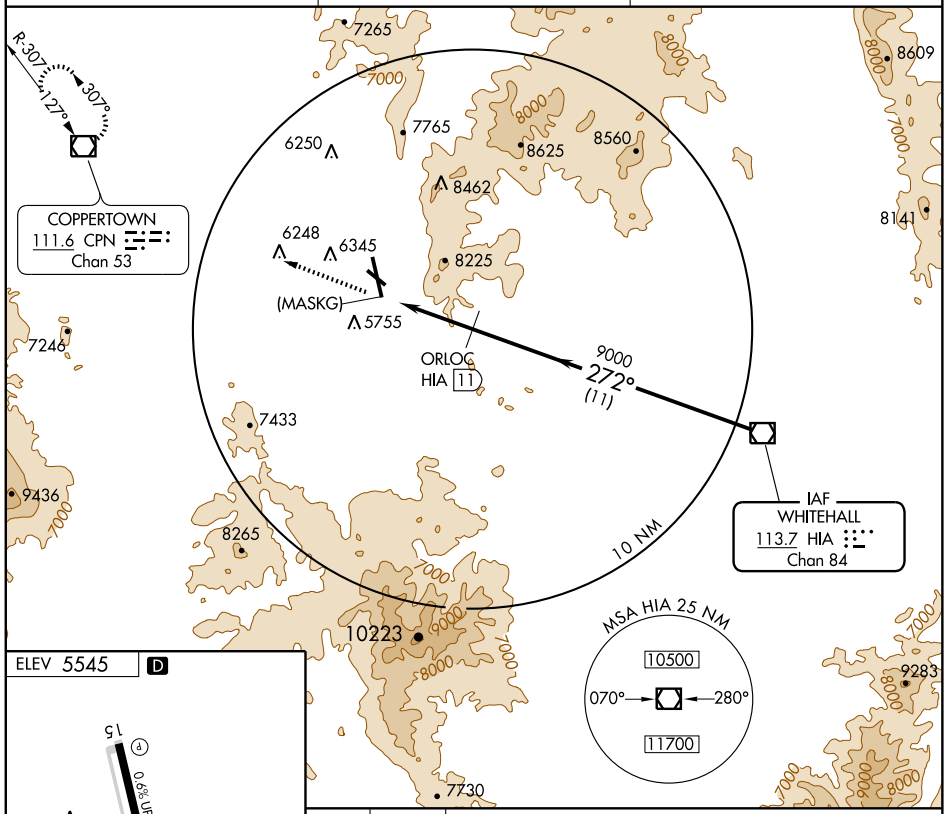
VOR/DME or GPS-A

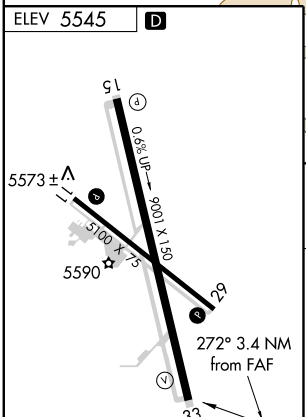
BUTTE/ BERT MOONEY (BTM)

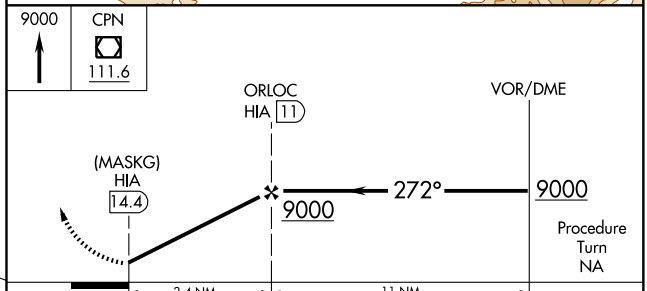
Circling NA northeast of Rwy 15-33.

MISSED APPROACH: Climb to 9000 direct CPN VOR/DME and hold.

ASOS	SALT LAKE CENTER	UNICOM
135.175	132.4 338.3	123.0 (CTAF) L







REIL Rwys 11, 15, and 29 L
MIRL Rwys 11-29 and 15-33 L

CATEGORY	A	B	C	D
CIRCLING	8540-1¼ 2995 (3000-1¼)	8540-1½ 2995 (3000-1½)	8540-3 2995 (3000-3)	

NW-1, 03 JUN 2010 to 01 JUL 2010

VOR/DME CPN	APP CRS	Rwy Idg	N/A
111.6	097°	TDZE	N/A
Chan 53		Apt Elev	5545

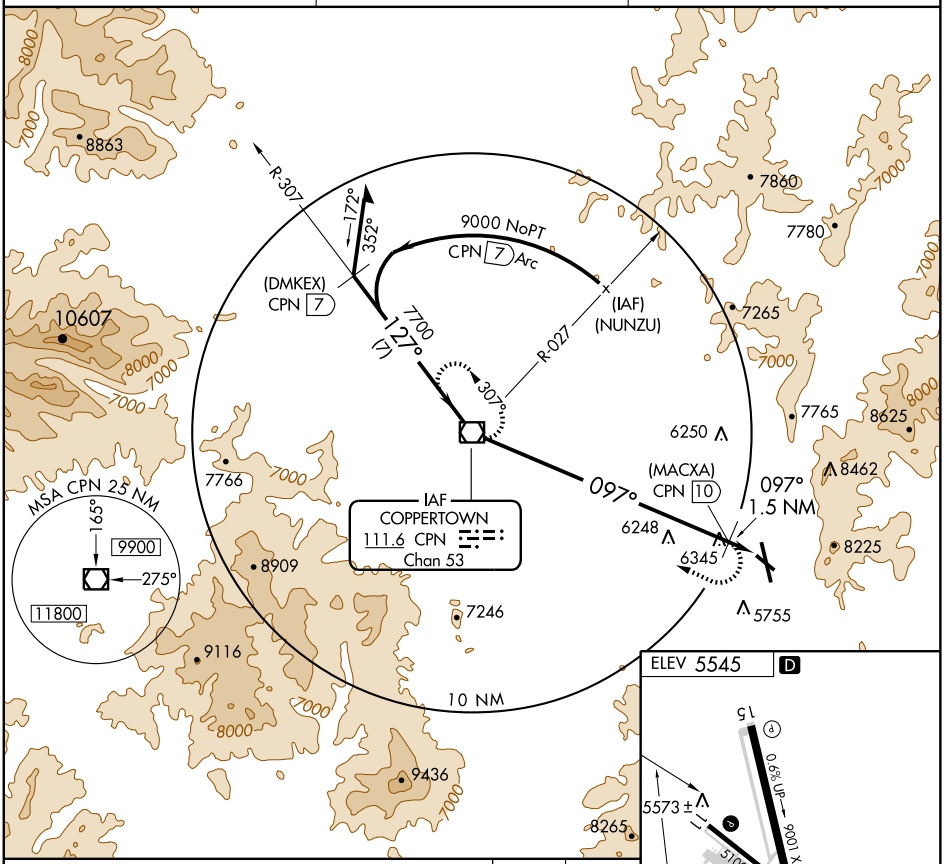
VOR or GPS-B

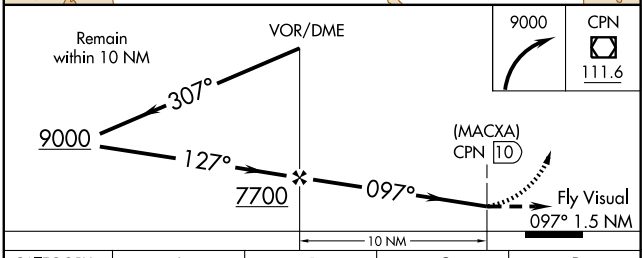
BUTTE/BERT MOONEY (BTM)

Circling not authorized NE of Rwy 15-33.

MISSED APPROACH: Climbing right turn to 9000 direct CPN VOR/DME and hold.

ASOS	SALT LAKE CENTER	UNICOM
135.175	132.4 338.3	123.0 (CTAF) L





CATEGORY	A	B	C	D
CIRCLING	6900-1½ 1355 (1400-1½)		6900-3 1355 (1400-3)	

FAF to MAP 10 NM					
Knots	60	90	120	150	180
Min:Sec	10:00	6:40	5:00	4:00	3:20

NW-1, 03 JUN 2010 to 01 JUL 2010

NDB CII 269	APP CRS 226°	Rwy Idg 3700 TDZE 3940 Apt Elev 3949

NDB or GPS RWY 23

CHOTEAU (CII)

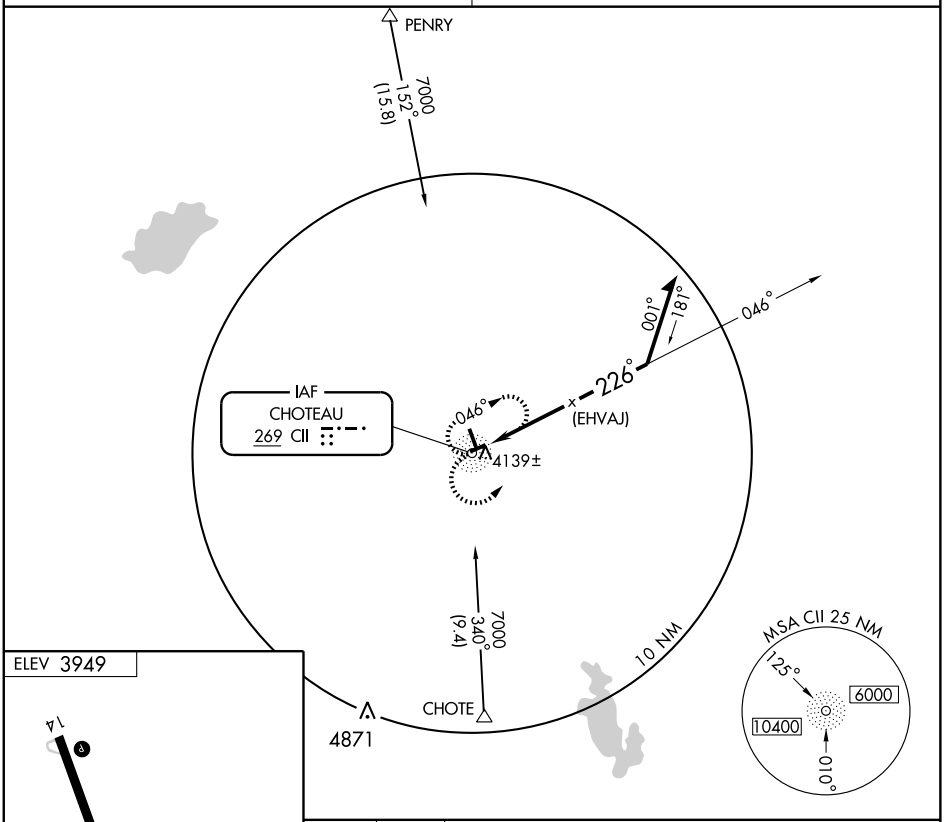
NA

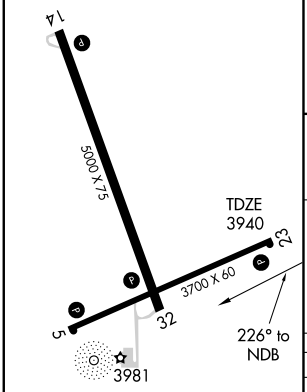
Use Great Falls altimeter setting.

MISSED APPROACH: Climbing left turn to 6000 direct CII NDB and hold.

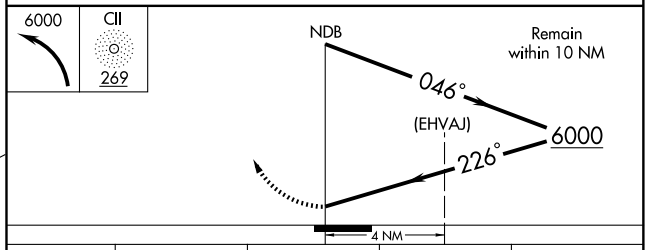
SALT LAKE CITY CENTER
133.4 285.4

UNICOM
122.8 (CTAF) L





MIRL Rwy 5-23 and 14-32 L

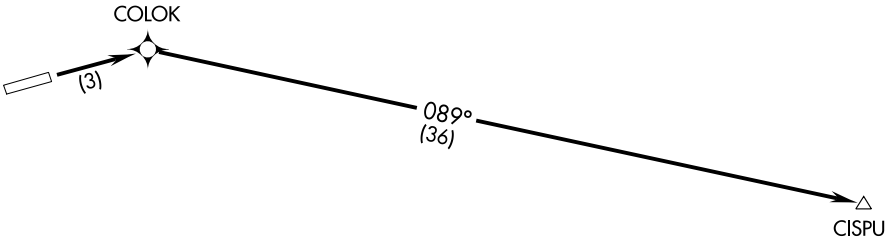


CATEGORY	A	B	C	D
S-23	4720-1 780 (800-1)	4720-1¼ 780 (800-1¼)	4720-2¼ 780 (800-2¼)	NA
CIRCLING	4720-1 775 (800-1)	4720-1¼ 775 (800-1¼)	4720-2¼ 775 (800-2¼)	NA

NW-1, 03 JUN 2010 to 01 JUL 2010

CISPU ONE DEPARTURE (RNAV) (OBSTACLE)

SALT LAKE CENTER
127.75 351.9



TAKE-OFF MINIMUMS

Rwy 6: Standard.
Rwy 24: NA - ATC.

TAKE-OFF OBSTACLE NOTES

Rwy 6: Tree 1492′ from DER, 620′ right of centerline, 20′ AGL/3499′ MSL.
Tree 507′ from DER, 598′ left of centerline, 20′ AGL/3419′ MSL.

NOTE: GPS required.

NOTE: RNAV 1

NOTE: Chart not to scale.

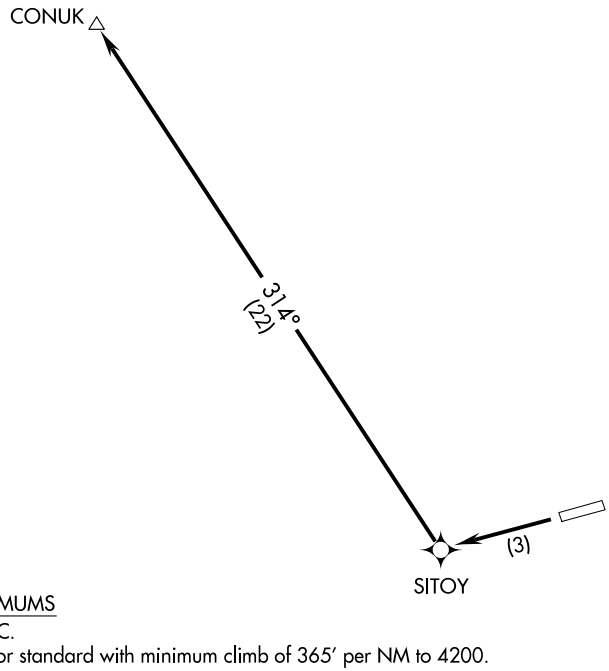
DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 6: Climb direct COLOK then via 089° track to CISPU, thence....

....Maintain 9000, expect filed altitude 10 minutes after departure.

CONUK ONE DEPARTURE (RNAV) (OBSTACLE)

SALT LAKE CENTER
127.75 351.9



TAKE-OFF MINIMUMS

Rwy 6: NA - ATC.
Rwy 24: 600-3 or standard with minimum climb of 365′ per NM to 4200.

TAKE-OFF OBSTACLE NOTE

Rwy 24: Dragline 11510′ from DER, 3559′ right of centerline, 225′ AGL/3964′ MSL.

NOTE: GPS required.
NOTE: RNAV 1

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 24: Climb direct SITOY then via 314° track to CONUK, thence....

....Maintain 6000, expect filed altitude 10 minutes after departure.

NW-1, 03 JUN 2010 to 01 JUL 2010

APP CRS	Rwy Idg	5100
061°	TDZE	3426
	Apt Elev	3426

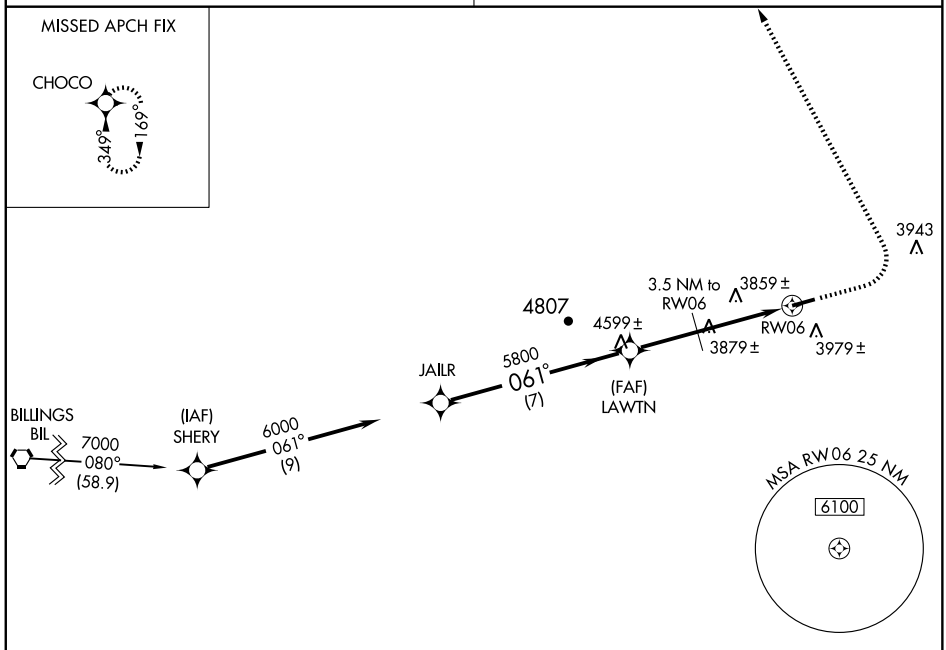
GPS RWY 6
COLSTRIP (M46)

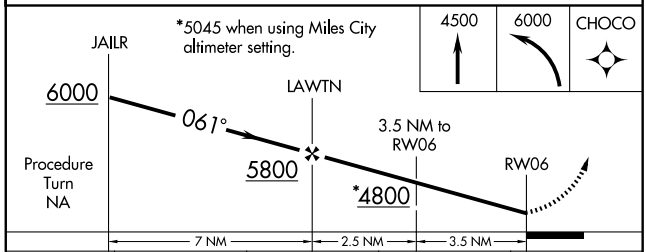
NA

When local altimeter not received use Miles City altimeter setting.

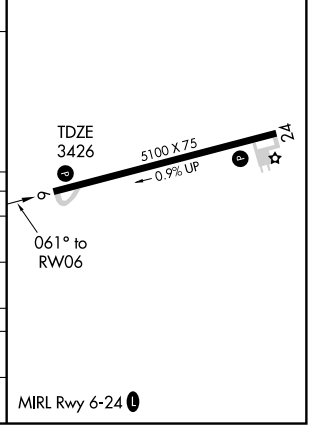
MISSED APPROACH: Climb to 4500 then climbing left turn to 6000 direct CHOCO WP and hold.

SALT LAKE CENTER	CTAF
127.75 351.9	122.9 L





CATEGORY	A	B	C	D
S-6	4220-1 794 (800-1)	4220-1¼ 794 (800-1¼)	4220-2¼ 794 (800-2¼)	NA
CIRCLING	4340-1¼ 914 (1000-1¼)		4340-2¾ 914 (1000-2¾)	NA
MILES CITY ALTIMETER SETTING				
S-6	NA			
CIRCLING	4580-1¼ 1154 (1200-1¼)	4580-1½ 1154 (1200-1½)	4580-3 1154 (1200-3)	NA



NW-1, 03 JUN 2010 to 01 JUL 2010

APP CRS	Rwy Idg	5100
242°	TDZE	3411
	Apt Elev	3426

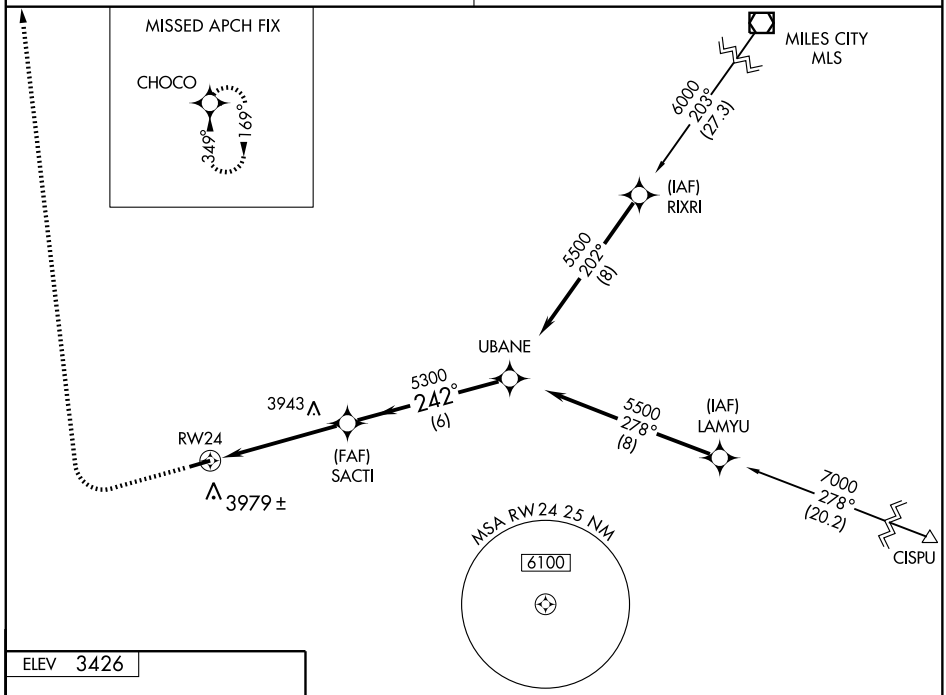
GPS RWY 24
COLSTRIP (M46)

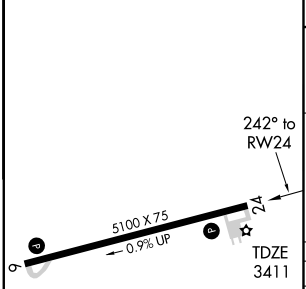
T
NA When local altimeter not received use Miles City altimeter setting.

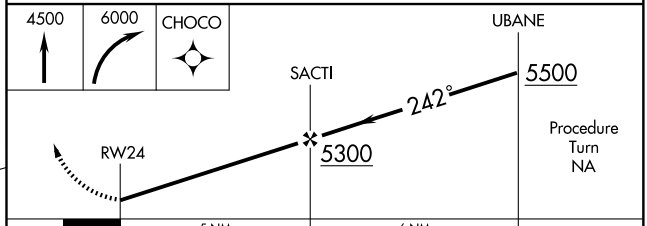
MISSED APPROACH: Climb to 4500 then climbing right turn to 6000 direct CHOCO WP and hold.

SALT LAKE CENTER
127.75 351.9

CTAF
122.9 L







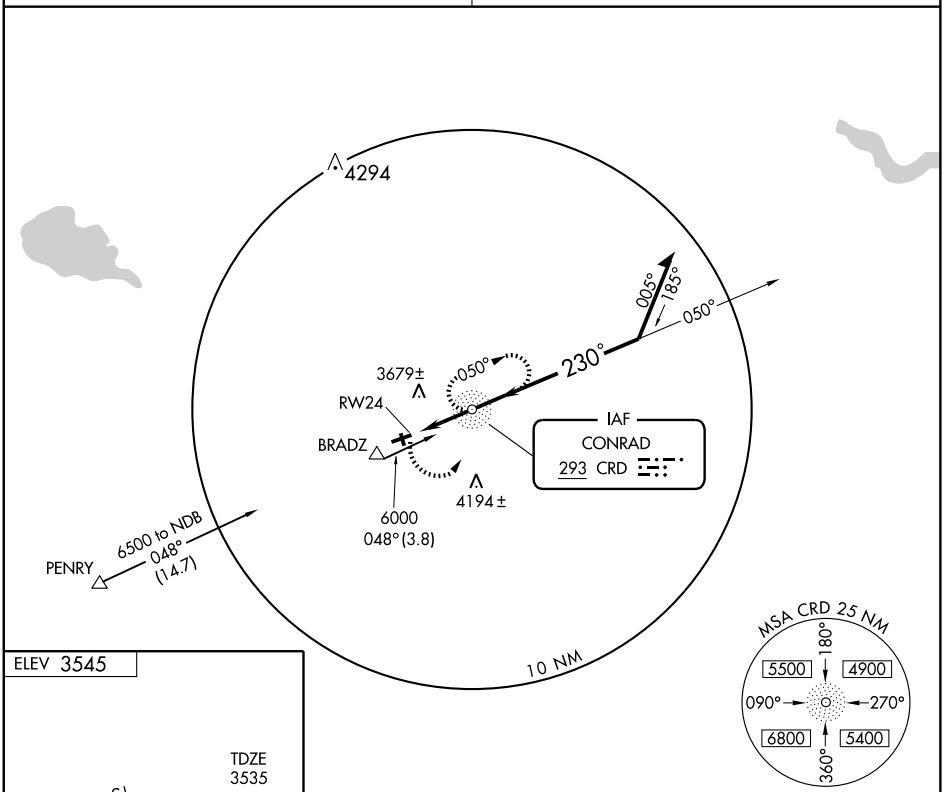
CATEGORY	A	B	C	D
S-24	4200-1 789 (800-1)	4200-1¼ 789 (800-1¼)	4200-2¼ 789 (800-2¼)	NA
CIRCLING	4340-1¼ 914 (1000-1¼)		4340-2¾ 914 (1000-2¾)	NA
MILES CITY ALTIMETER SETTING				
S-24	4440-1¼ 1029 (1100-1¼)	4440-1½ 1029 (1100-1½)	4440-2¾ 1029 (1100-2¾)	NA
CIRCLING	4580-1¼ 1154 (1200-1¼)	4580-1½ 1154 (1200-1½)	4580-3 1154 (1200-3)	NA

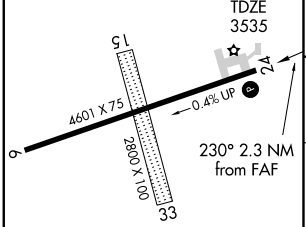
NW-1, 03 JUN 2010 to 01 JUL 2010

NDB CRD	APP CRS	Rwy Idg	4601
293	230°	TDZE	3535
		Apt Elev	3545

NDB or GPS RWY 24
CONRAD (SØ1)

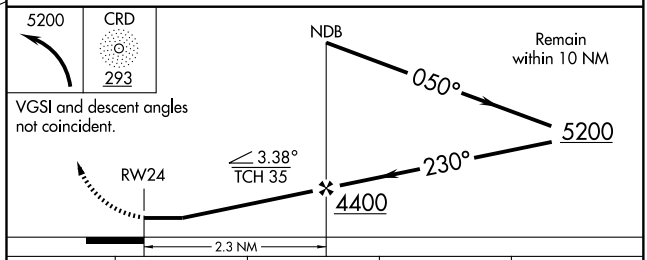
▼ ⚠ NA — Use Cut Bank altimeter setting; if not received, procedure not authorized.	MISSED APPROACH: Climbing left turn to 5200 direct CRD NDB and hold.
SALT LAKE CITY CENTER **133.4 285.4**	UNICOM **122.8** (CTAF) L





MIRL Rwy 6-24 L
REIL Rwy 24 L

FAF to MAP 2.3 NM					
Knots	60	90	120	150	180
Min:Sec	2:18	1:32	1:09	0:55	0:46



CATEGORY	A	B	C	D
S-24	4260-1	725 (800-1)	4260-2 725 (800-2)	4260-2¼ 725 (800-2¼)
CIRCLING	4260-1	715 (800-1)	4340-2¼ 795 (800-2¼)	NA

NW-1, 03 JUN 2010 to 01 JUL 2010

APP CRS		
315°	Rwy Idg	5300
	TDZE	3847
	Apt Elev	3854

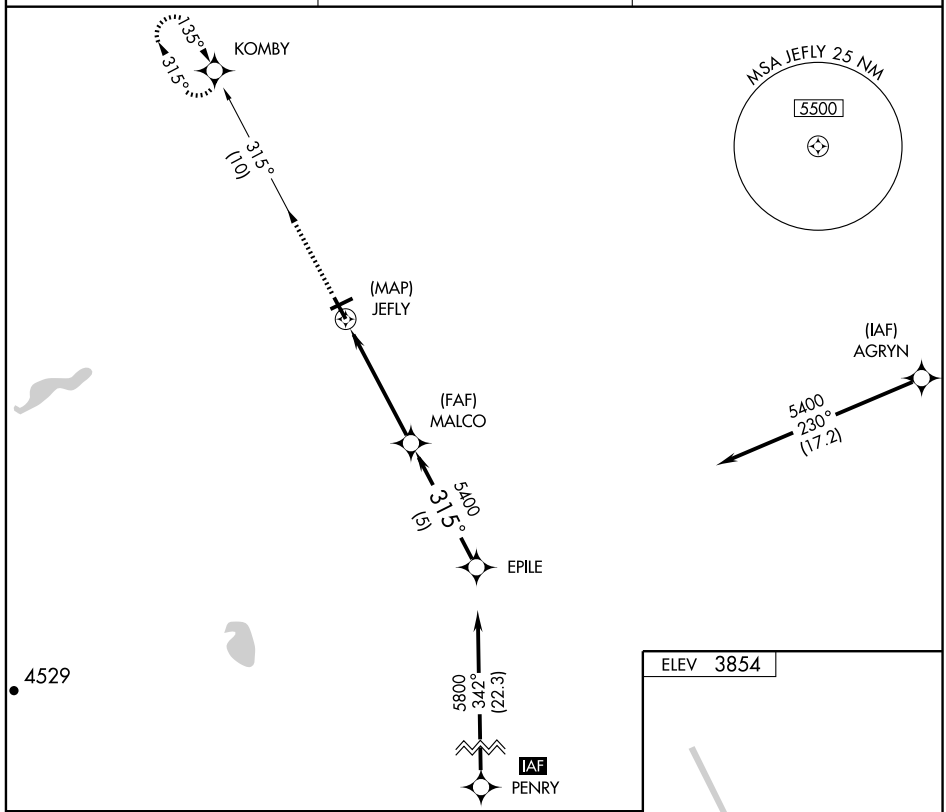
GPS RWY 31
CUT BANK MUNI (CTB)

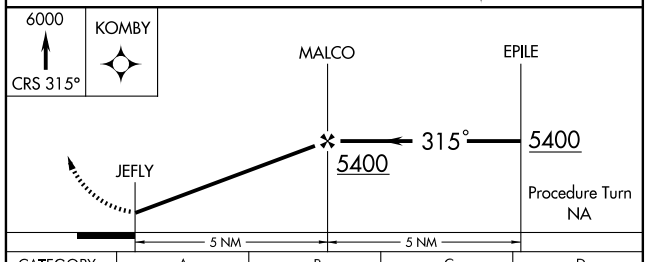
NA

IAF ARM APPROACH MODE PRIOR TO IAF.

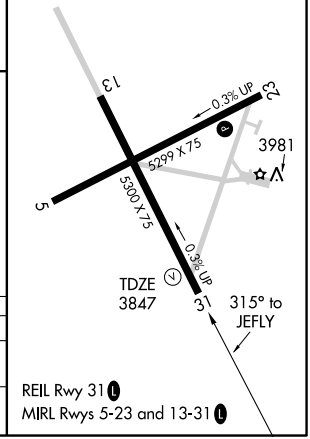
MISSED APPROACH: Climb to 6000 via 315° course to KOMBY WP and hold.

ASOS	SALT LAKE CITY CENTER	UNICOM
119.025	133.4 285.4	122.8 (CTAF) L





CATEGORY	A	B	C	D
S-31	4220-1 373 (400-1)			4220-1¼ 373 (400-1¼)
CIRCLING	4220-1 366 (400-1)	4320-1 466 (500-1)	4320-1½ 466 (500-1½)	4420-2 566 (600-2)



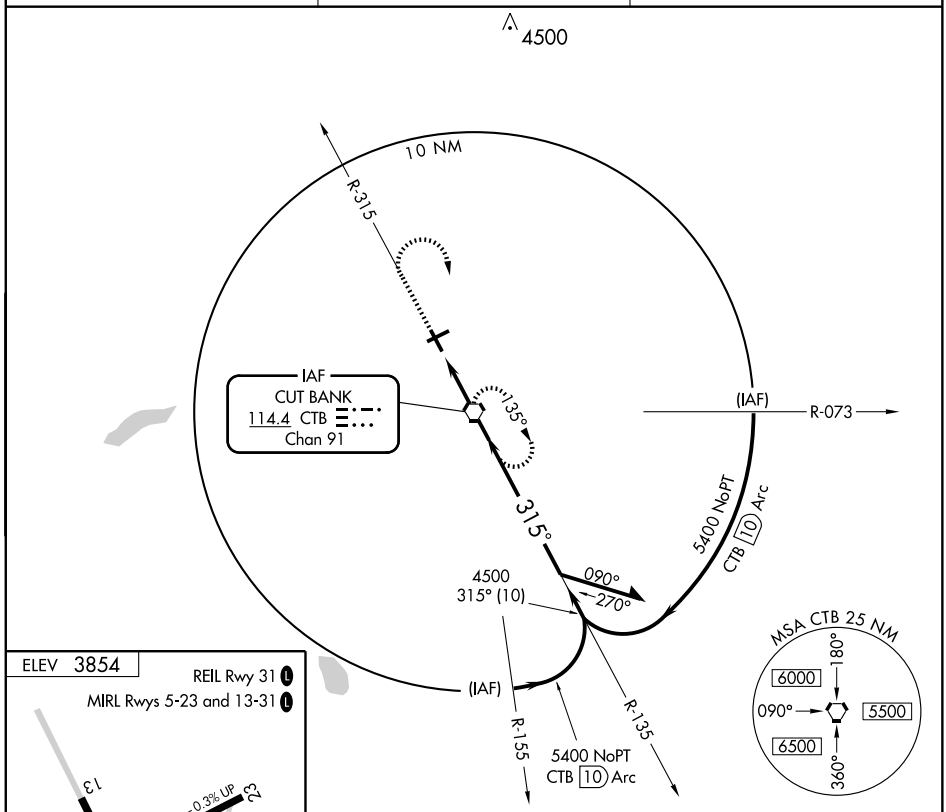
NW-1, 03 JUN 2010 to 01 JUL 2010

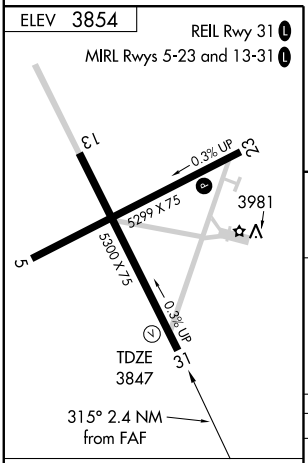
VORTAC CTB	APP CRS	Rwy Idg	5300
114.4	315°	TDZE	3847
Chan 91		Apt Elev	3854

VOR RWY 31
CUT BANK MUNI (CTB)

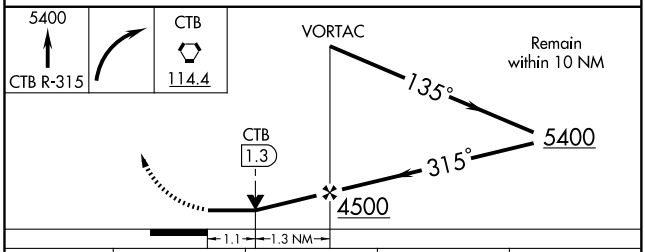
MISSED APPROACH: Climb to 5400 via CTB R-315 then right turn direct CTB VORTAC and hold.

ASOS	SALT LAKE CITY CENTER	UNICOM
119.025	133.4 285.4	122.8 (CTAF) L





FAF to MAP 2.4 NM					
Knots	60	90	120	150	180
Min:Sec	2:24	1:36	1:12	0:58	0:48



CATEGORY	A	B	C	D
S-31	4200-1 353 (400-1)			4200-1¼ 353 (400-1¼)
CIRCLING	4340-1 486 (500-1)		4340-1½ 486 (500-1½)	4420-2 566 (600-2)

NW-1, 03 JUN 2010 to 01 JUL 2010

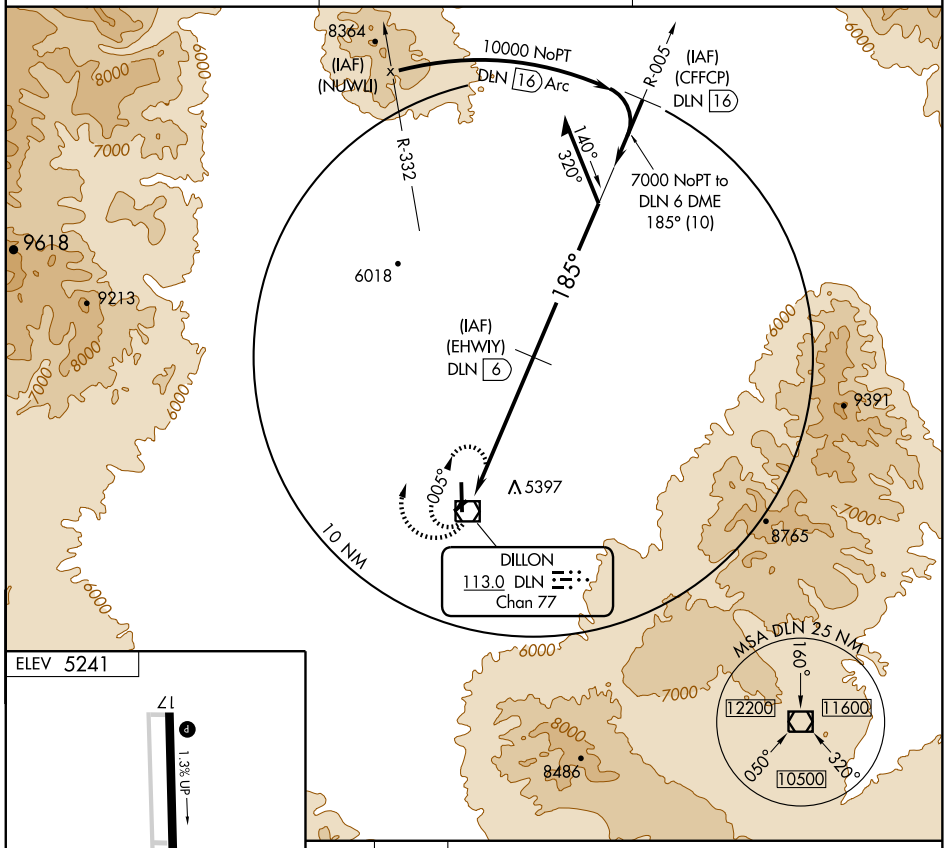
VOR/DME DLN	APP CRS	Rwy Idg	N/A
113.0	185°	TDZE	N/A
Chan 77		Apt Elev	5241

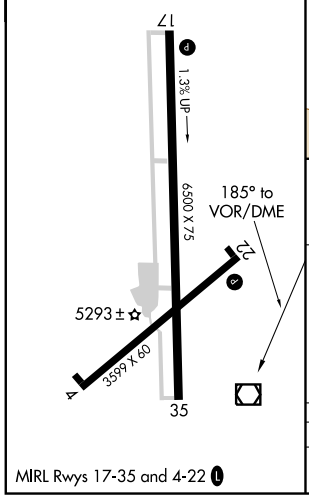
VOR/DME or GPS-B
DILLON (DLN)

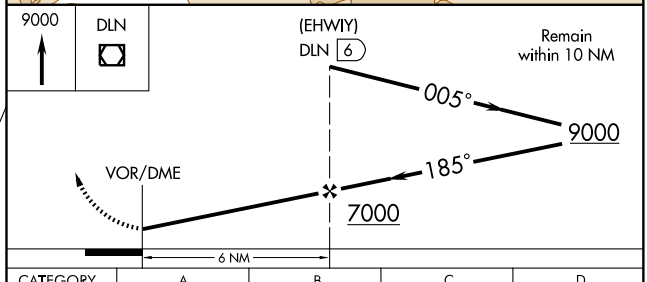
Procedure not authorized when Dillon altimeter setting not available.

MISSED APPROACH: Climb to 9000 in DLN VOR/DME holding pattern.

ASOS	SALT LAKE CENTER	UNICOM
135.225	132.4 338.3	122.8 (CTAF) L







CATEGORY	A	B	C	D
CIRCLING	5720-1 482 (500-1)	5740-1 502 (600-1)	5760-1½ 522 (600-1½)	5840-2 602 (700-2)

MIRL Rwys 17-35 and 4-22 L

NW-1, 03 JUN 2010 to 01 JUL 2010

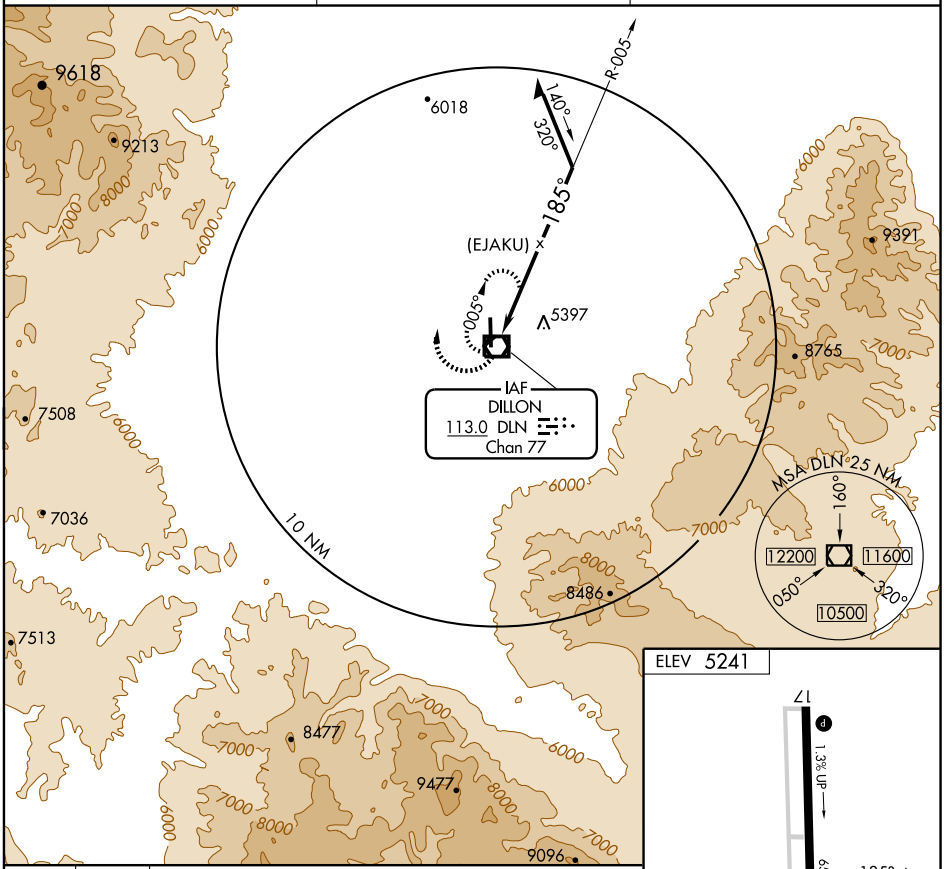
VOR/DME DLN	APP CRS	Rwy Idg N/A
113.0	185°	TDZE N/A
Chan 77		Apt Elev 5241

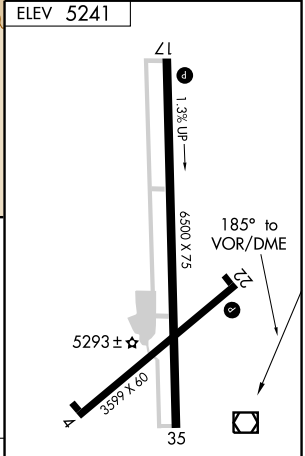
VOR or GPS-A
DILLON (DLN)

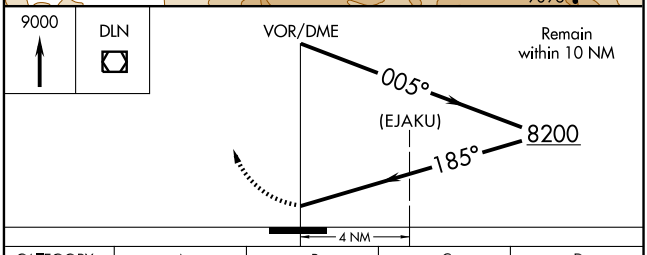
Procedure not authorized when Dillon altimeter setting not available.

MISSED APPROACH: Climb to 9000 in DLN VOR/DME holding pattern.

ASOS	SALT LAKE CENTER	UNICOM
135.225	132.4 338.3	122.8 (CTAF) L







CATEGORY	A	B	C	D
CIRCLING	6700-1¼ 1462 (1500-1¼)	6700-1½ 1462 (1500-1½)	6700-3 1462 (1500-3)	

MIRL Rwys 17-35 and 4-22 L

NW-1, 03 JUN 2010 to 01 JUL 2010

APP CRS	Rwy Idg	4799
263°	TDZE	2726
	Apt Elev	2727

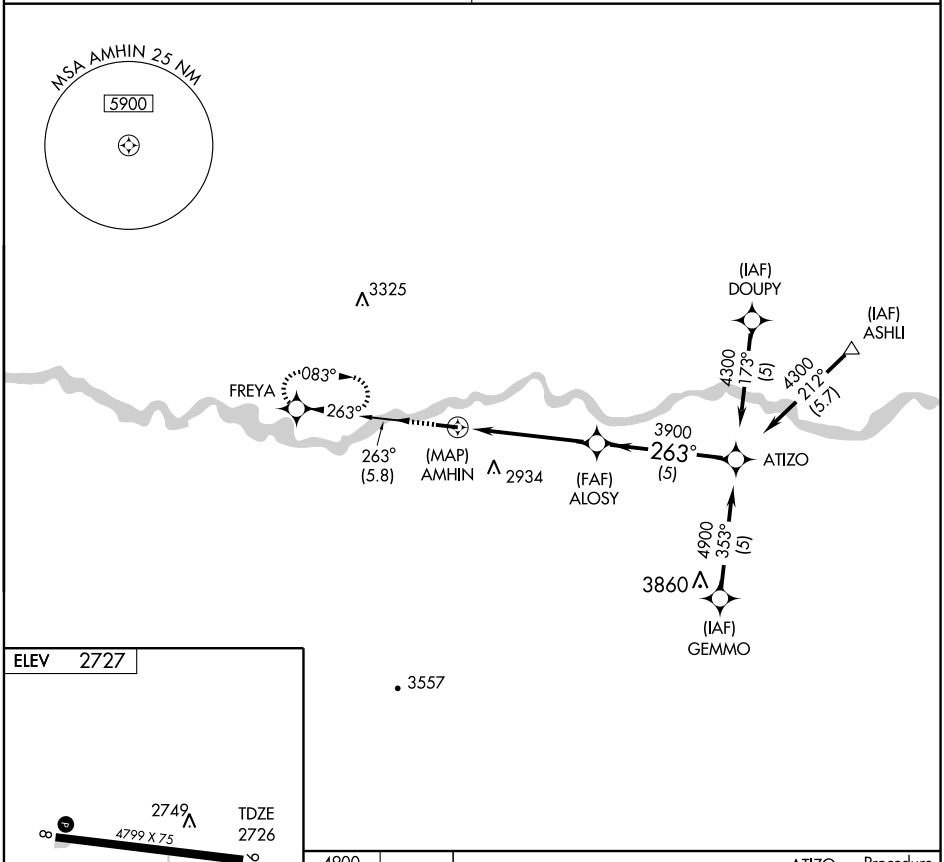
GPS RWY 26

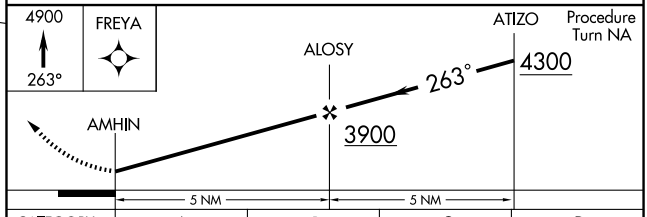
FORSYTH/ TILLITT FIELD (1S3)

NA Use Miles City altimeter setting, when not available, except for operators with approved weather reporting services, procedure not authorized.

MISSED APPROACH: Climb to 4900 via 263° course to FREYA WP and hold.

GREAT FALLS RADIO	UNICOM
122.2 255.4	122.8 (CTAF) L





CATEGORY	A	B	C	D
S-26	3200-1 474 (500-1)		3200-1¼ 474 (500-1¼)	3200-1½ 474 (500-1½)
CIRCLING	3280-1 553 (600-1)	3400-1 673 (700-1)	3420-2 693 (700-2)	3440-2¼ 713 (800-2¼)

MIRL Rwy 8-26 L

NW-1, 03 JUN 2010 to 01 JUL 2010

NDB FOR	APP CRS		
236	257°	Rwy Idg	4799
		TDZE	2726
		Apt Elev	2727

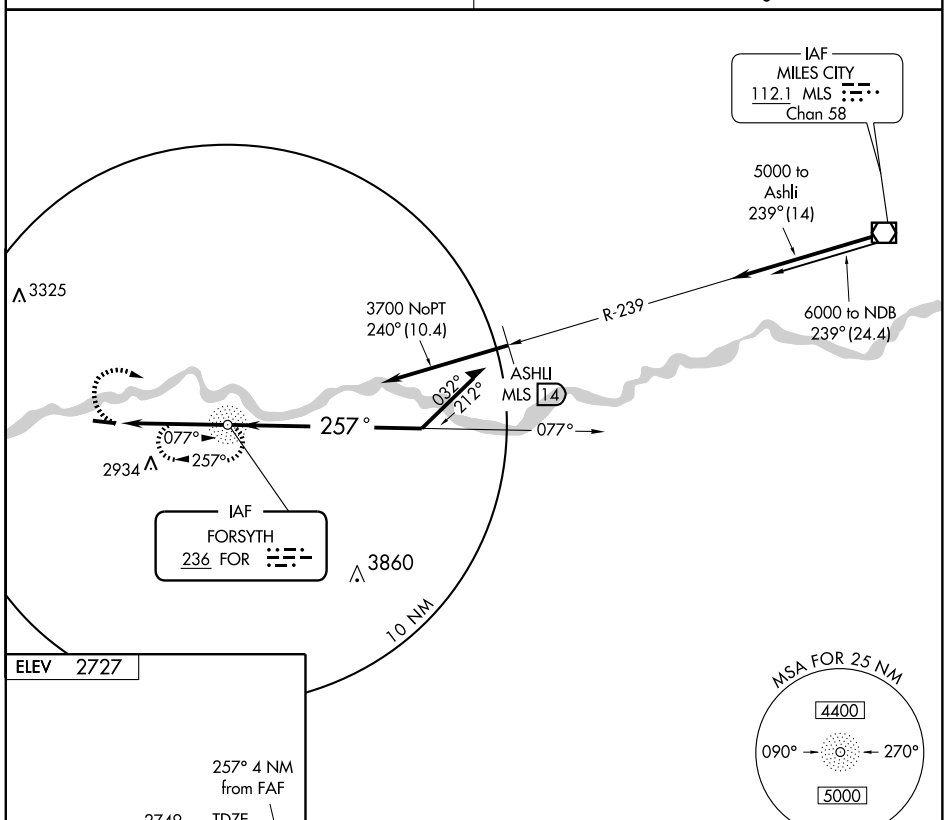
NDB RWY 26

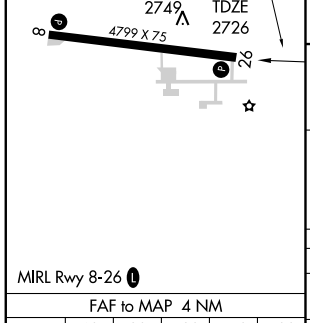
FORSYTH/ TILLITT FIELD (1S3)

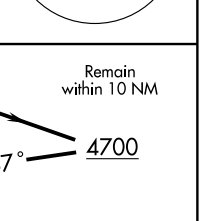
NA Use Miles City altimeter setting, when not available, except for operators with approved weather reporting services, procedure not authorized.

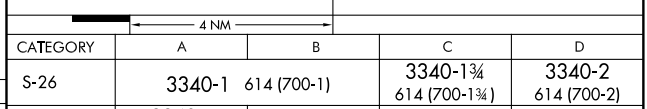
MISSED APPROACH: Climbing right turn to 4700 direct FOR NDB and hold.

GREAT FALLS RADIO	UNICOM
122.2 255.4	122.8 (CTAF) L









MIRL Rwy 8-26 L

FAF to MAP 4 NM					
Knots	60	90	120	150	180
Min:Sec	4:00	2:40	2:00	1:36	1:20

CATEGORY	A	B	C	D
S-26	3340-1 614 (700-1)		3340-1¾ 614 (700-1¾)	3340-2 614 (700-2)
CIRCLING	3340-1 614 (700-1)	3420-1 694 (700-1)	3420-2 694 (700-2)	3440-2¼ 714 (800-2¼)

NW-1, 03 JUN 2010 to 01 JUL 2010

RNAV (GPS) RWY 23

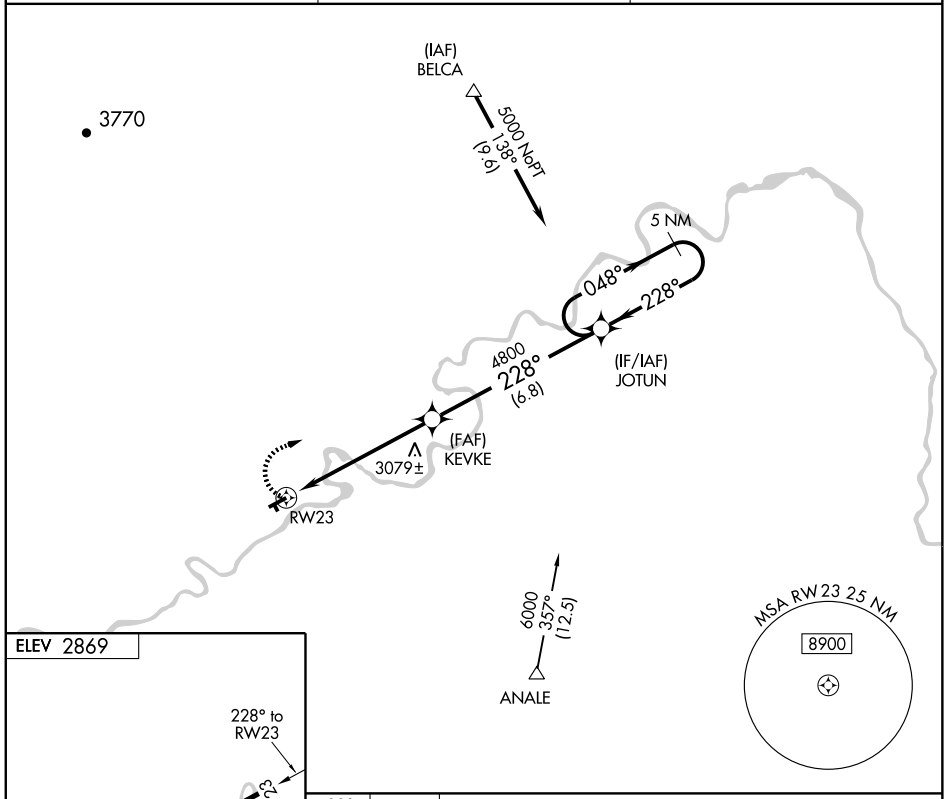
FORT BENTON (79S)

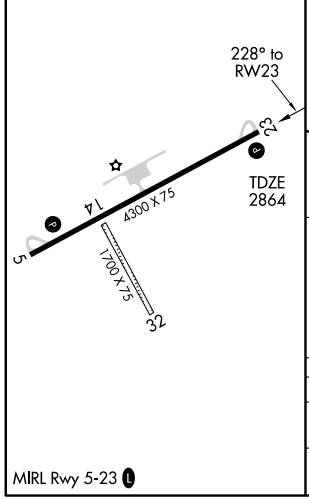
APP CRS	Rwy Idg	4300
228°	TDZE	2864
	Apt Elev	2869

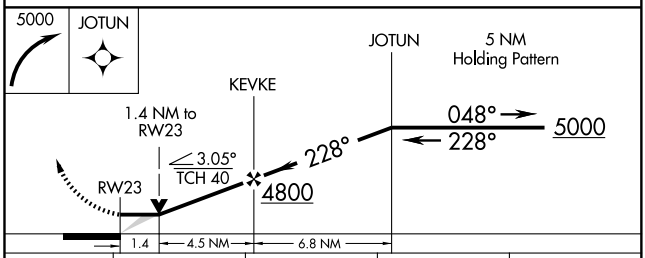
DME/DME RNP-0.3 NA. Procedure NA at night. When local altimeter setting not received, use Great Falls altimeter setting and increase all MDA 280 feet and all Cat B and C visibilities 1 mile.

MISSED APPROACH: Climbing right turn to 5000 direct JOTUN and hold.

AWOS-A	SALT LAKE CENTER	UNICOM
122.8	133.4 285.4	122.8 (CTAF) L







CATEGORY	A	B	C	D
LNAV MDA	3340-1	476 (500-1)	3340-1¼ 476 (500-1¼)	NA
CIRCLING	3340-1	471 (500-1)	3340-1½ 471 (500-1½)	NA

NW-1, 03 JUN 2010 to 01 JUL 2010

APP CRS	Rwy Idg	5001
120°	TDZE	2291
	Apt Elev	2294

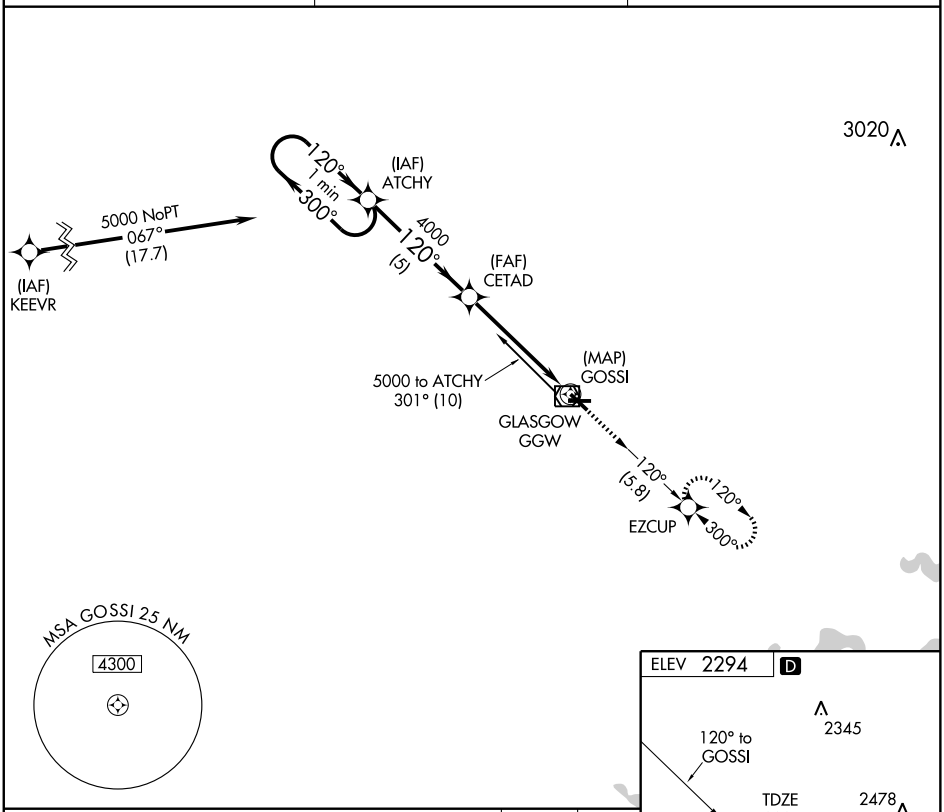
GPS RWY 12

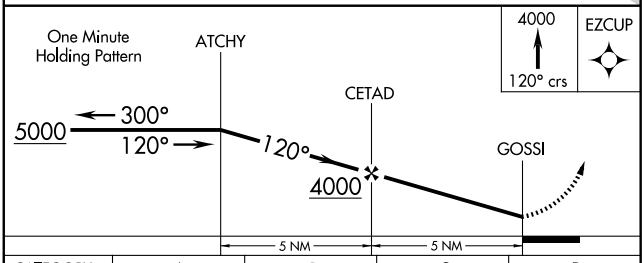
GLASGOW/WOKAL FIELD/GLASGOW INTL (GGW)

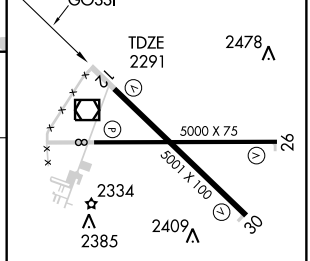
NA

MISSED APPROACH: Climb to 4000 via 120° course to EZCUP WP and hold.

ASOS	SALT LAKE CENTER	UNICOM
135.175	126.85 305.2	122.8 (CTAF) L







CATEGORY	A	B	C	D
S-12	2720-1	429 (500-1)	2720-1¼ 429 (500-1¼)	2720-1½ 429 (500-1½)
CIRCLING	2780-1	486 (500-1)	2780-1½ 486 (500-1½)	2860-2 566 (600-2)

REIL Rwys 8, 12, 26 and 30 L
MIRL Rwys 8-26 and 12-30 L

NW-1, 03 JUN 2010 to 01 JUL 2010

NDB MKR	APP CRS	Rwy Idg	5001
339	272°	TDZE	2291
		Apt Elev	2294

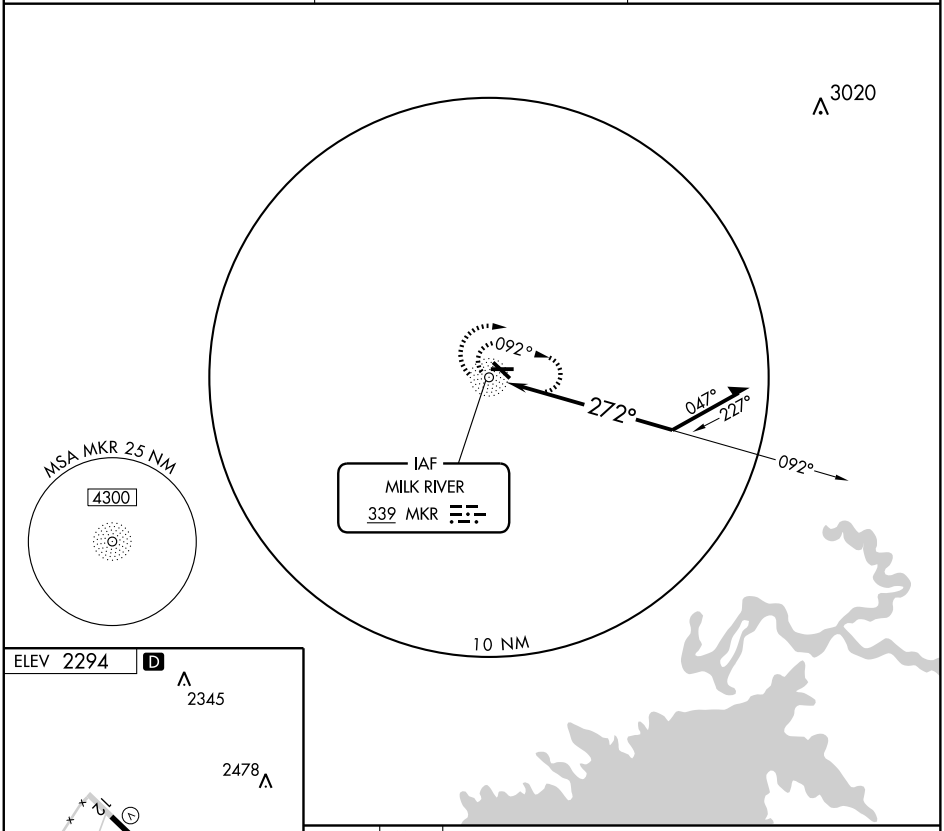
NDB RWY 30

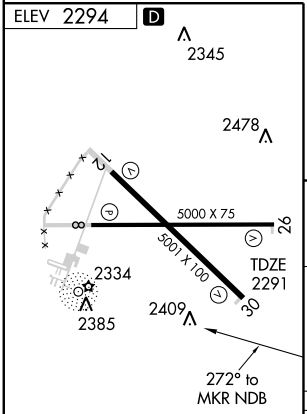
GLASGOW/WOKAL FIELD/GLASGOW INTL (GGW)

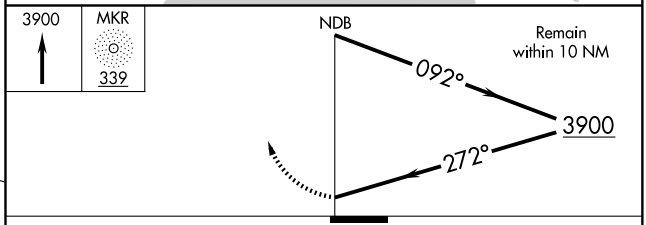
ACTIVATE MIRL Rwys 8-26 and 12-30-CTAF.

MISSED APPROACH: Climb to 3900 in MKR NDB holding pattern.

ASOS	SALT LAKE CENTER	UNICOM
135.175	126.85 305.2	122.8 (CTAF) L







CATEGORY	A	B	C	D
S-30	2840-1	549 (600-1)	2840-1½ 549 (600-1½)	2840-1¾ 549 (600-1¾)
CIRCLING	2840-1	547 (600-1)	2840-1½ 547 (600-1½)	2860-2 567 (600-2)

REIL Rwys 8, 12, 26 and 30 L
MIRL Rwys 8-26 and 12-30 L

NW-1, 03 JUN 2010 to 01 JUL 2010

VOR/DME GGW	APP CRS	Rwy Idg	5001
113.9	293°	TDZE	2291
Chan 86		Apt Elev	2294

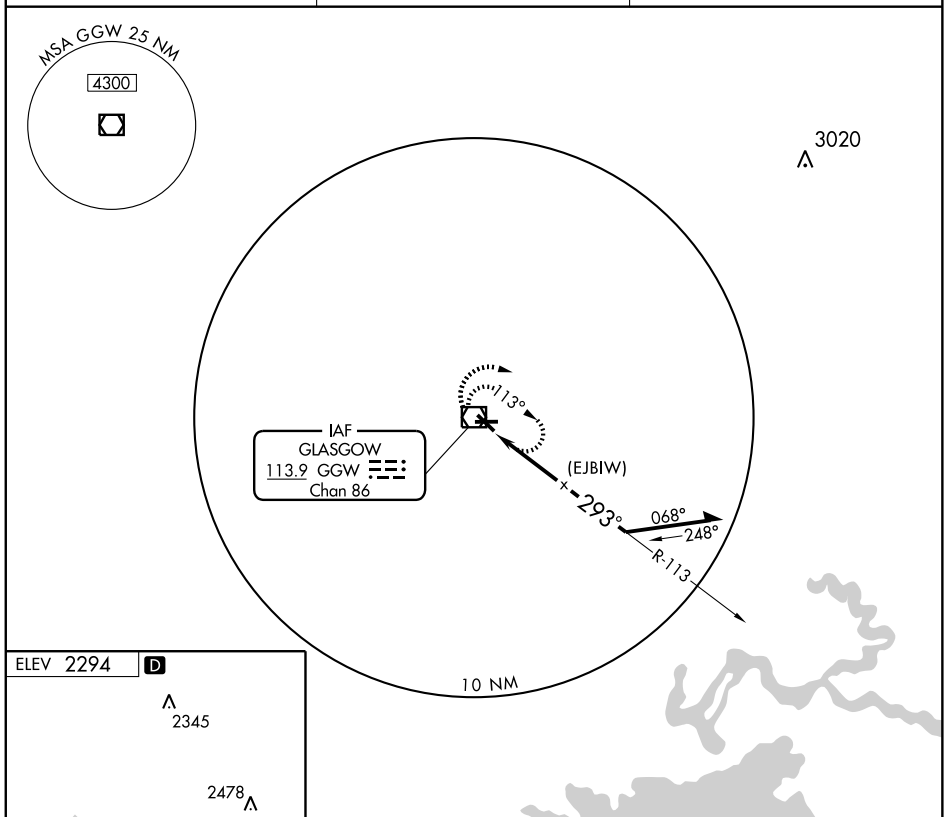
VOR or GPS RWY 30

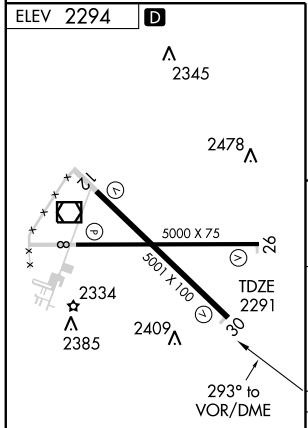
GLASGOW/WOKAL FIELD/GLASGOW INTL (GGW)

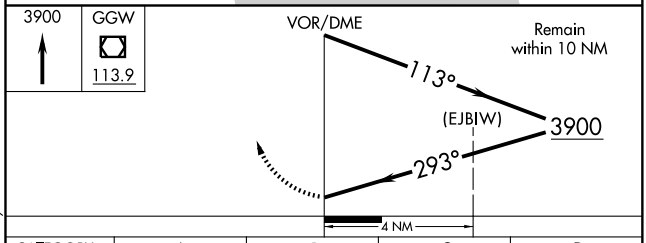
ACTIVATE MIRL Rwys 8-26 and 12-30-CTAF.

MISSED APPROACH: Climb to 3900 in GGW VOR/DME holding pattern.

ASOS	SALT LAKE CENTER	UNICOM
135.175	126.85 305.2	122.8 (CTAF) L







CATEGORY	A	B	C	D
S-30	2780-1	489 (500-1)	2780-1¼ 489 (500-1¼)	2780-1½ 489 (500-1½)
CIRCLING	2780-1	487 (500-1)	2780-1½ 487 (500-1½)	2860-2 567 (600-2)

REIL Rwys 8, 12, 26 and 30 L
MIRL Rwys 8-26 and 12-30 L

NW-1, 03 JUN 2010 to 01 JUL 2010

VOR/DME GGW	APP CRS	Rwy Idg	5001
113.9	133°	TDZE	2291
Chan 86		Apt Elev	2294

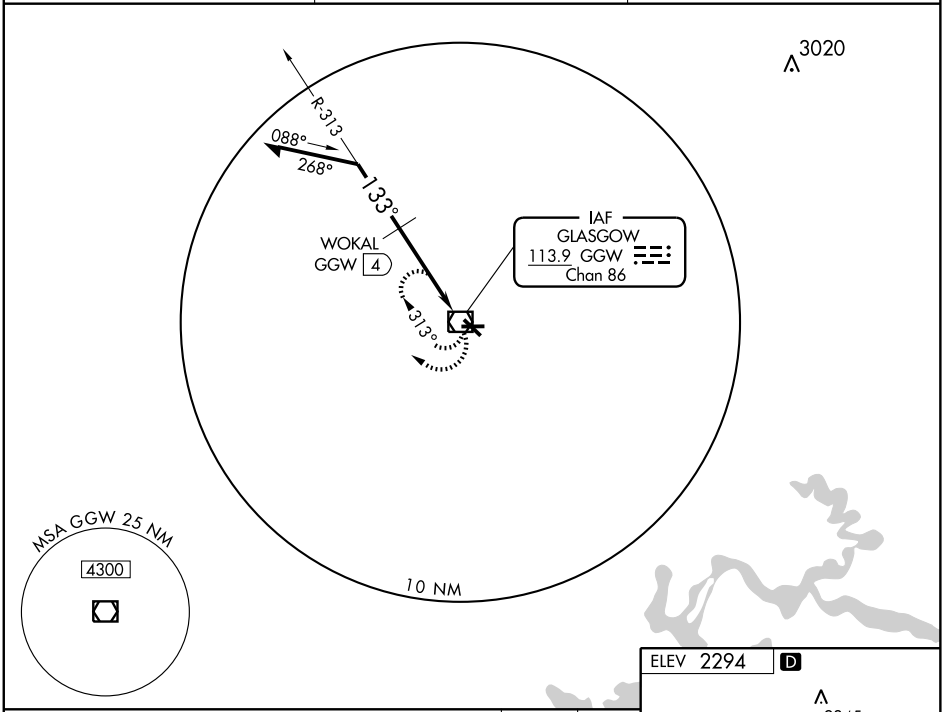
VOR RWY 12

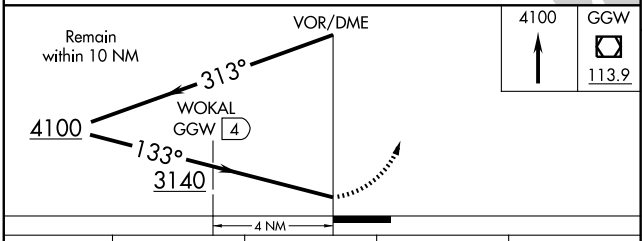
GLASGOW/WOKAL FIELD/GLASGOW INTL (GGW)

ACTIVATE MIRL Rwys 8-26 and 12-30-CTAF.

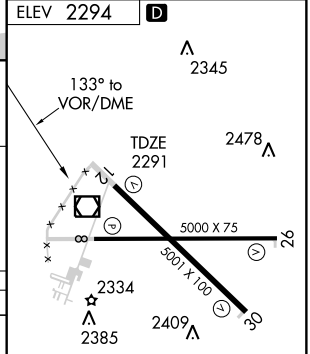
MISSED APPROACH: Climb to 4100 in GGW VOR/DME holding pattern.

ASOS	SALT LAKE CENTER	UNICOM
135.175	126.85 305.2	122.8 (CTAF) L





CATEGORY	A	B	C	D
S-12	3140-1 849 (900-1)	3140-1¼ 849 (900-1¼)	3140-2½ 849 (900-2½)	3140-2¾ 849 (900-2¾)
CIRCLING	3140-1 847 (900-1)	3140-1¼ 847 (900-1¼)	3140-2½ 847 (900-2½)	3140-2¾ 847 (900-2¾)
VOR/DME MINIMUMS				
S-12	2700-1 409 (500-1)		2700-1¼ 409 (500-1¼)	
CIRCLING	2780-1 487 (500-1)		2780-1½ 487 (500-1½)	2860-2 567 (600-2)



REIL Rwys 8, 12, 26 and 30 L
MIRL Rwys 8-26 and 12-30 L

NW-1, 03 JUN 2010 to 01 JUL 2010

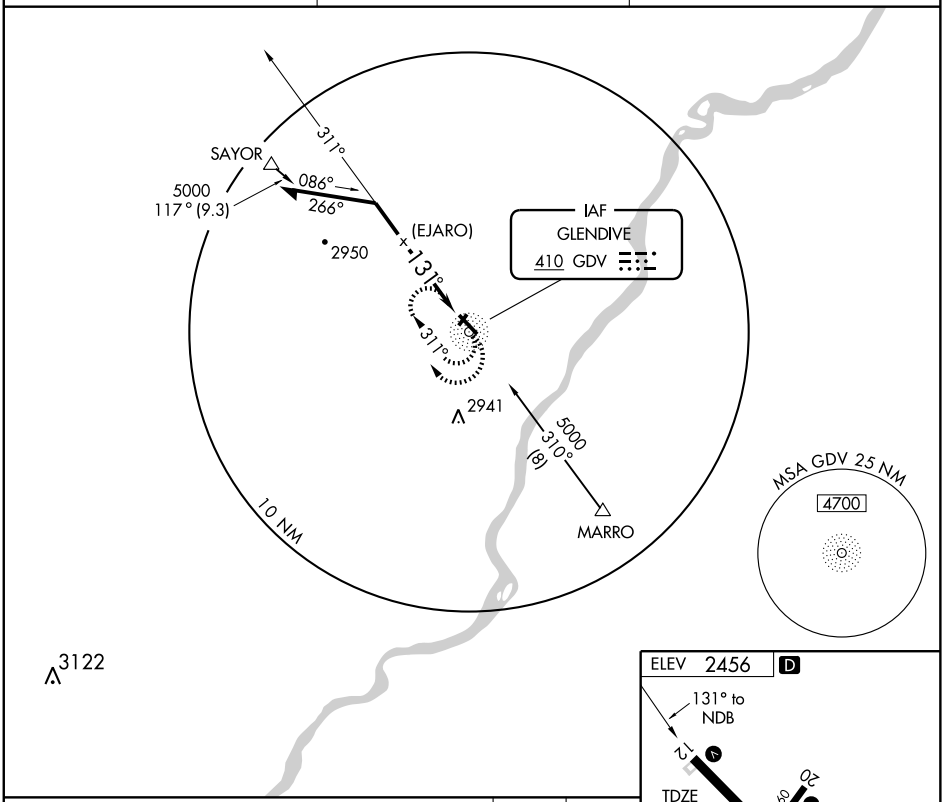
NDB GDV 410	APP CRS 131°	Rwy Idg 5704 TDZE 2456 Apt Elev 2456

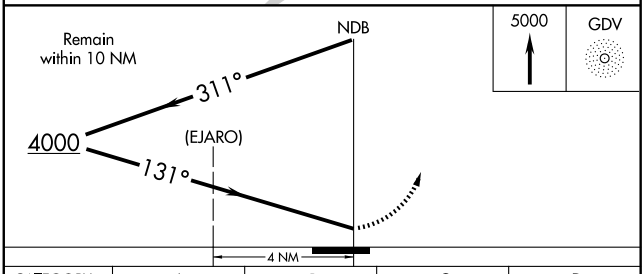
NDB or GPS RWY 12

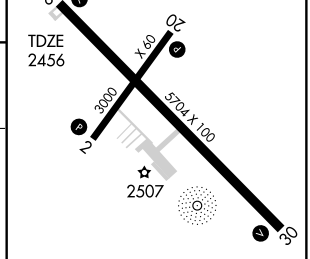
GLENDIVE/ DAWSON COMMUNITY (GDV)

MISSED APPROACH: Climb to 5000 in GDV NDB holding pattern.

AWOS-3	GREAT FALLS RADIO	UNICOM
135.075	122.55	122.8 (CTAF) L







CATEGORY	A	B	C	D
S-12	3300-1 844 (900-1)	3300-1¼ 844 (900-1¼)	3300-2½ 844 (900-2½)	3300-2¾ 844 (900-2¾)
CIRCLING	3300-1 844 (900-1)	3300-1¼ 844 (900-1¼)	3300-2½ 844 (900-2½)	3300-2¾ 844 (900-2¾)

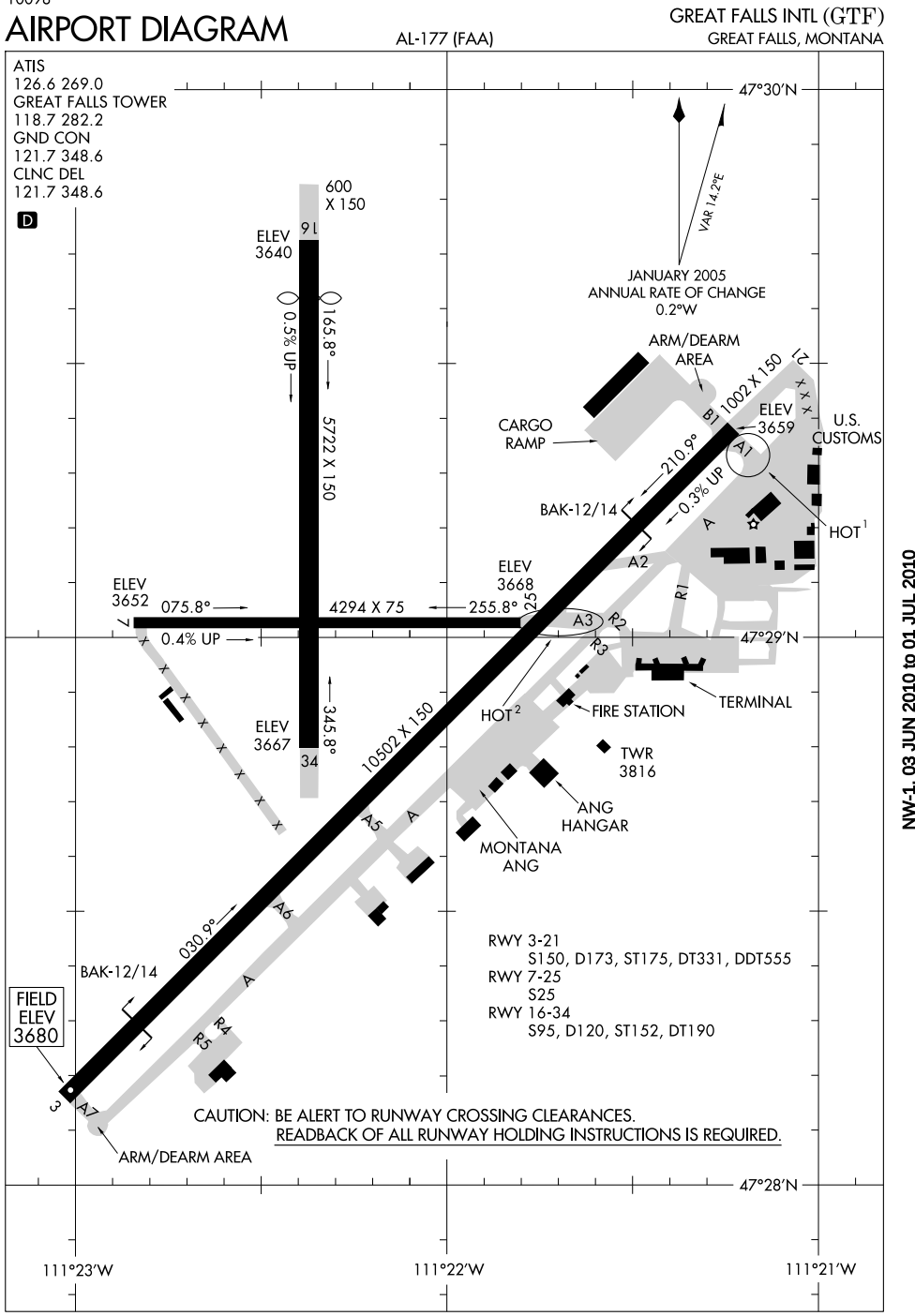
MIRL Rwys 2-20 and 12-30 L
REIL Rwys 12 and 30

NW-1, 03 JUN 2010 to 01 JUL 2010

AIRPORT DIAGRAM

AL-177 (FAA)

GREAT FALLS INTL (GTF)
GREAT FALLS, MONTANA



NW-1, 03 JUN 2010 to 01 JUL 2010

APP CRS	Rwy Idg	10502
209°	TDZE	3669
	Apt Elev	3680

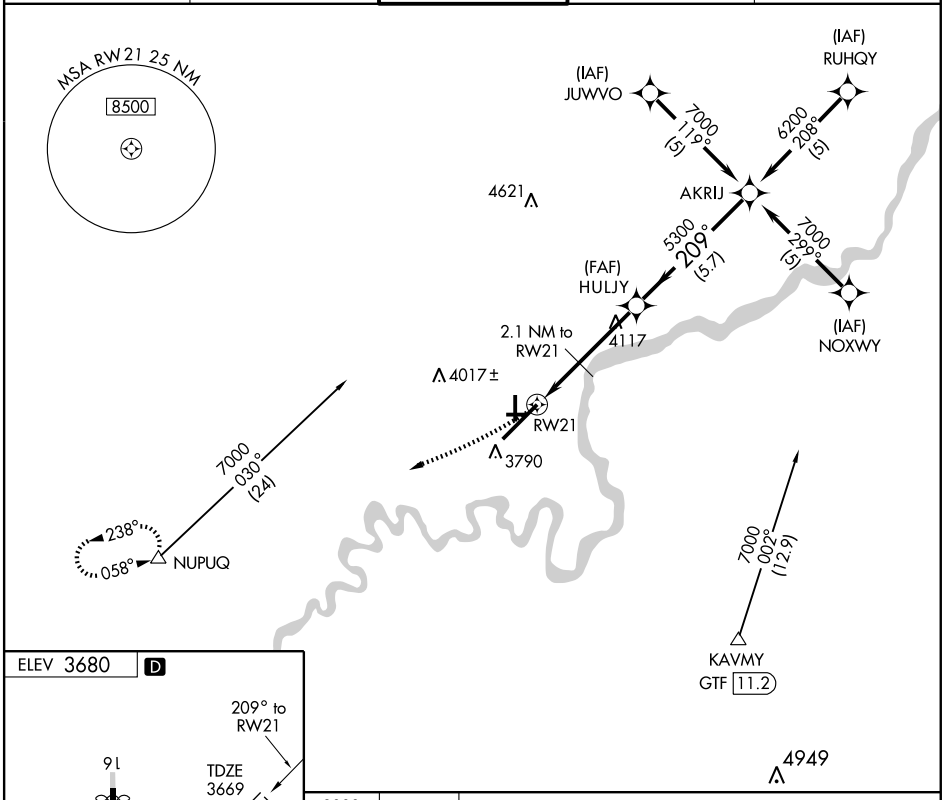
GPS RWY 21

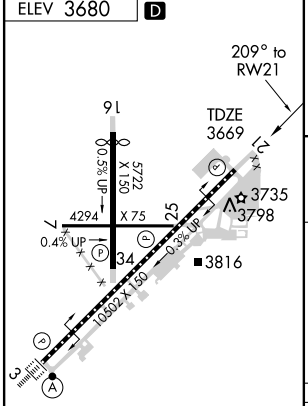
GREAT FALLS INTL (GTF)

NA

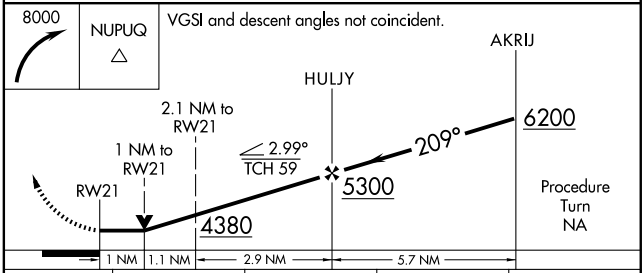
MISSED APPROACH: Climbing right turn to 8000 direct NUPUQ WP and hold.

ATIS	GREAT FALLS APP CON	GREAT FALLS TOWER	GND CON	CLNC DEL
126.6 269.0	128.6 259.1	118.7 282.2	121.7 348.6	121.7 348.6





TDZ/CL Rwy 3
REIL Rwy 21
MIRL Rwy 7-25
HIRL Rwy 3-21 and 16-34



CATEGORY	A	B	C	D
S-21	4040-1 371 (400-1)			4040-1¼ 371 (400-1¼)
CIRCLING	4120-1 440 (500-1)	4140-1 460 (500-1)	4140-1½ 460 (500-1½)	4240-2 560 (600-2)

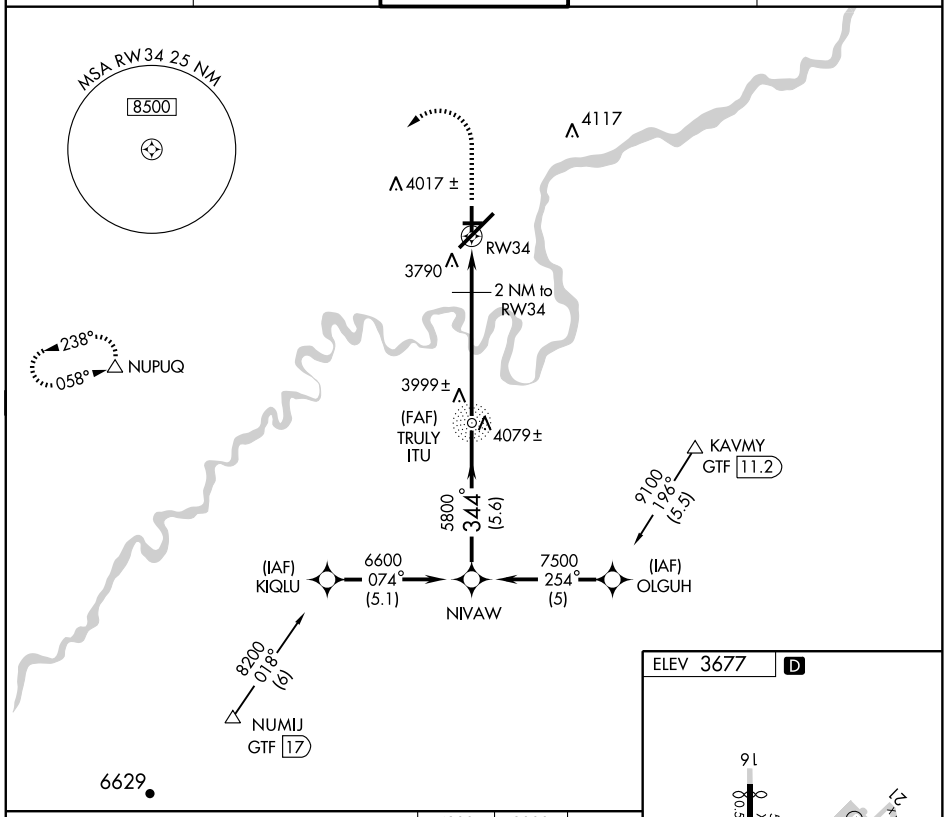
APP CRS	Rwy Idg	5070
344°	TDZE	3669
	Apt Elev	3677

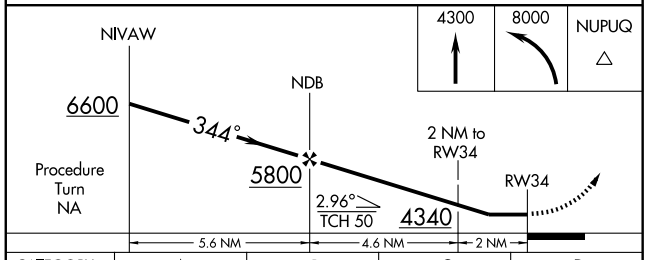
GPS RWY 34
GREAT FALLS INTL (GTF)

NA

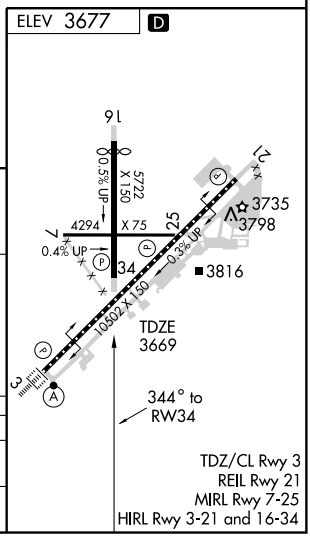
MISSED APPROACH: Climb to 4300, then climbing left turn to 8000 direct NUPUQ WP and hold.

ATIS	GREAT FALLS APP CON	GREAT FALLS TOWER	GND CON	CLNC DEL
126.6 269.0	128.6 259.1	118.7 282.2	121.7 348.6	121.7 348.6





CATEGORY	A	B	C	D
S-34	4100-1 431 (500-1)		4100-1¼ 431 (500-1¼)	4100-1½ 431 (500-1½)
CIRCLING	4120-1 443 (500-1)	4140-1 463 (500-1)	4140-1½ 463 (500-1½)	4240-2 563 (600-2)



NW-1, 03 JUN 2010 to 01 JUL 2010

HI-ILS or LOC/DME RWY 3

LOC I-SMR	APCH CRS	Rwy ldg 10,502
111.3	029°	TDZE 3680
Chan 50		Arpt Elev 3680

JAL 177 [USAF]

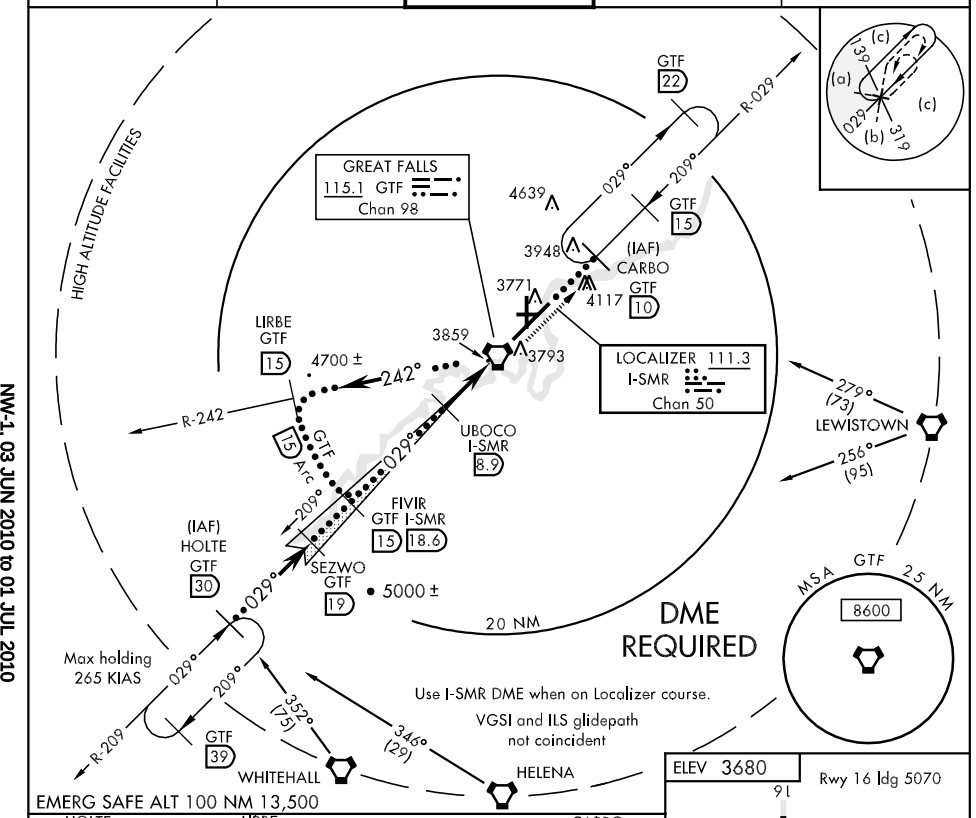
GREAT FALLS INTL (KGTF)

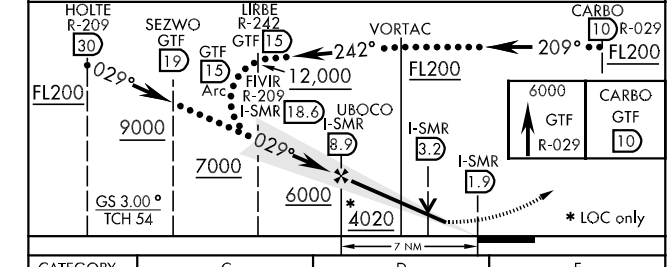
** When ALS inop, increase CAT C RVR to 50 and vis to 1 mile.

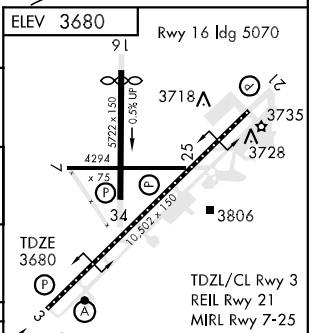
ALSF-2

MISSED APPROACH: Climb to 6000 via GTF R-029 to CARBO 10 DME and hold.

ATIS	GREAT FALLS APP CON	GREAT FALLS TOWER	GND CON	CLNC DEL
126.6 269.0	128.6 259.1	118.7 282.2	121.7 348.6	121.7 348.6







CATEGORY	C	D	E
S-ILS 3	3880/24	200	(200-½)
S-LOC 3 **	4160/40 480 (500-¾)	4160/50 480 (500-1)	4160/60 480 (500-1¼)
CIRCLING	4160-1½ 480 (500-1½)	4240-2 560 (600-2)	4420-2½ 740 (800-2½)

FAF to MAP 7 NM					
Knots	120	140	160	180	200
Min:Sec	3:30	3:00	2:38	2:20	2:06

NW-1, 03 JUN 2010 to 01 JUL 2010

HI-VOR/DME or TACAN RWY 3

VORTAC GTF	APCH CRS	Rwy ldg 10,502
115.1	029°	TDZE 3674
Chan 98		Arpt Elev 3680

JAL 177 [USAF]

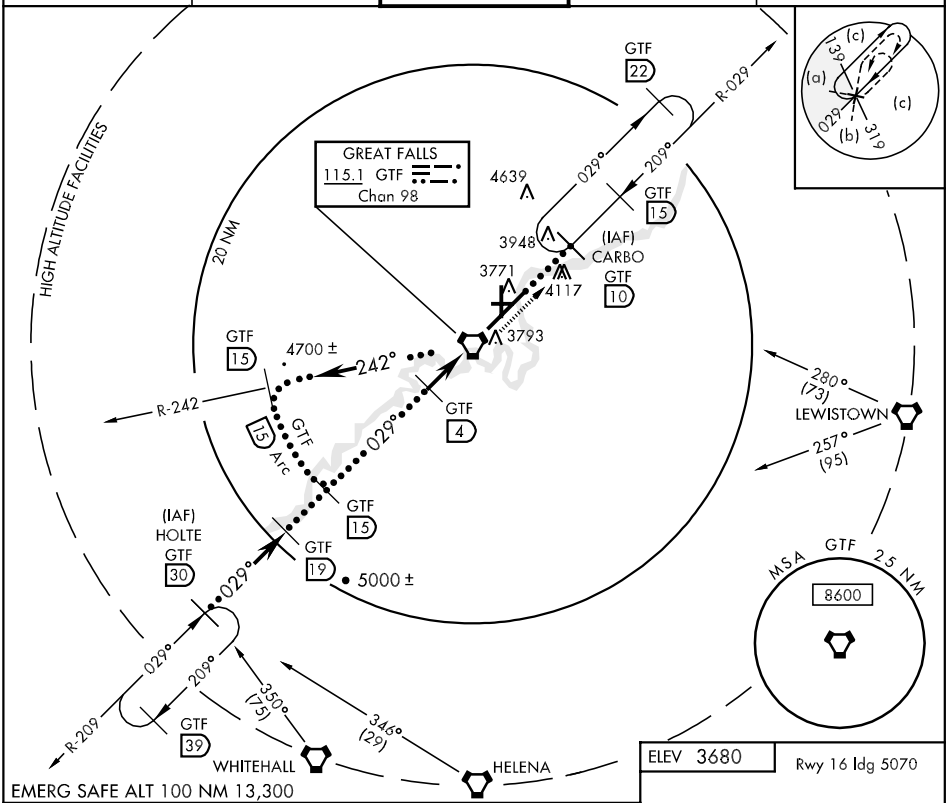
GREAT FALLS INTL (KGTF)

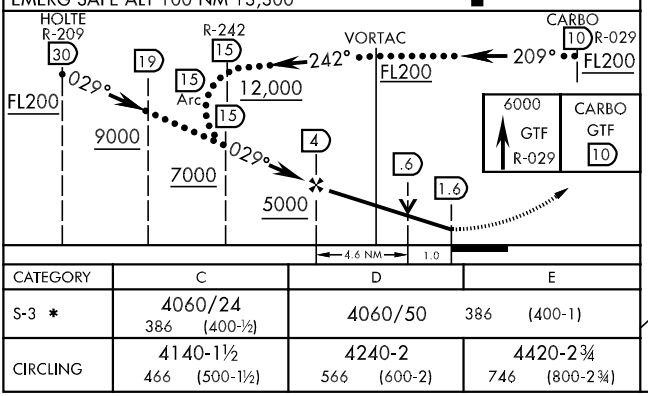
* When ALS inop, increase CAT DE RVR to 60 and vis to 1¼ miles.

ALSF-2

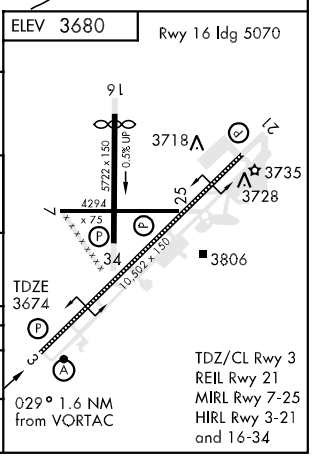
MISSED APPROACH: Climb to 6000 via GTF R-029 to CARBO 10 DME and hold.

ATIS	GREAT FALLS APP CON	GREAT FALLS TOWER	GND CON	CLNC DEL
126.6 269.0	128.6 259.1	118.7 282.2	121.7 348.6	121.7 348.6





CATEGORY	C	D	E
S-3 *	4060/24 386 (400-½)	4060/50 386 (400-1)	
CIRCLING	4140-1½ 466 (500-1½)	4240-2 566 (600-2)	4420-2¾ 746 (800-2¾)



NW-1, 03 JUN 2010 to 01 JUL 2010

HI-VOR/DME or TACAN RWY 21

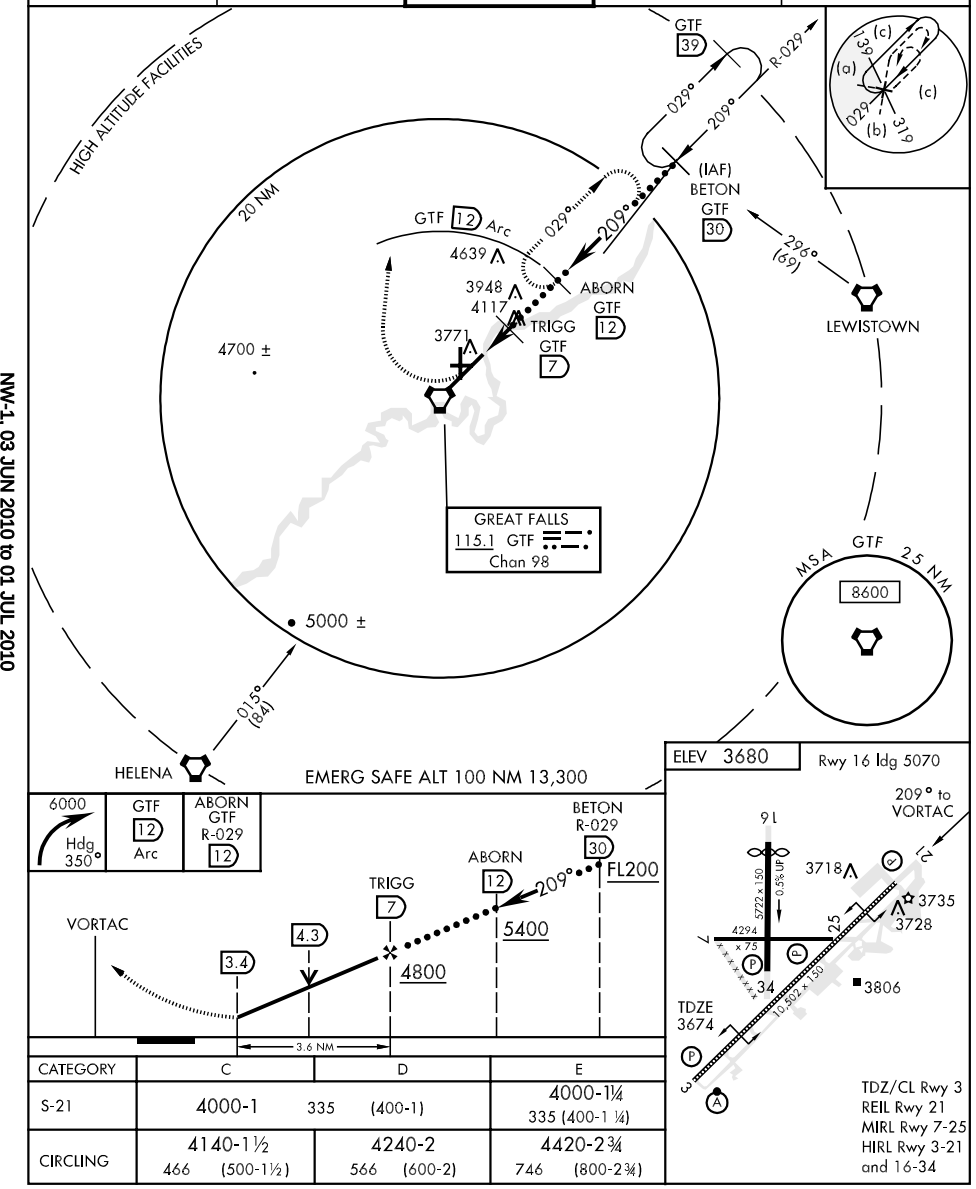
VORTAC GTF 115.1 Chan 98	APCH CRS 209°	Rwy ldg 10,502 TDZE 3665 Arpt Elev 3680

JAL-177 [USAF]

GREAT FALLS INTL (KGTF)

MISSED APPROACH: Climbing right turn to 6000 heading 350°, intercept GTF 12 DME Arc to ABORN 12 DME and hold.

ATIS	GREAT FALLS APP CON	GREAT FALLS TOWER	GND CON	CLNC DEL
126.6 269.0	128.6 259.1	118.7 282.2	121.7 348.6	121.7 348.6



CATEGORY	C	D	E
S-21	4000-1 335 (400-1)		4000-1¼ 335 (400-1 ¼)
CIRCLING	4140-1½ 466 (500-1½)	4240-2 566 (600-2)	4420-2¾ 746 (800-2¾)

NW-1, 03 JUN 2010 to 01 JUL 2010

LOC/DME I-SMR	APP CRS	Rwy Idg	10502
111.3	029°	TDZE	3680
Chan 50		Apt Elev	3680

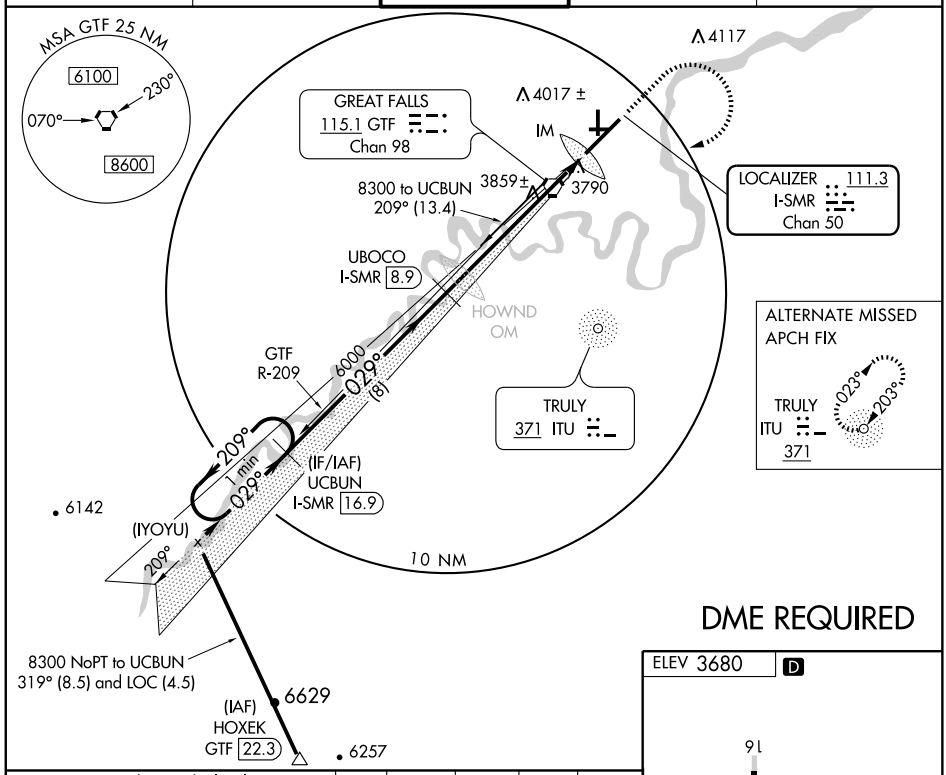
ILS or LOC/DME RWY 3

GREAT FALLS INTL (GTF)

ALSF-2

MISSED APPROACH: Climb to 5000 then climbing right turn to 8300 direct GTF VORTAC then via GTF VORTAC R-209 to UCBUN/GTF VORTAC 13.4 DME and hold.

ATIS	GREAT FALLS APP CON	GREAT FALLS TOWER	GND CON	CLNC DEL
126.6 269.0	128.6 259.1	118.7 282.2	121.7 348.6	121.7 348.6



DME REQUIRED

Use I-SMR DME when on the localizer course.

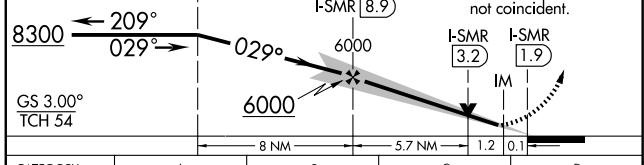
5000	8300	GTF	GTF	UCBUN
		115.1	R-209	GTF 13.4

One Minute Holding Pattern

UCBUN I-SMR 16.9

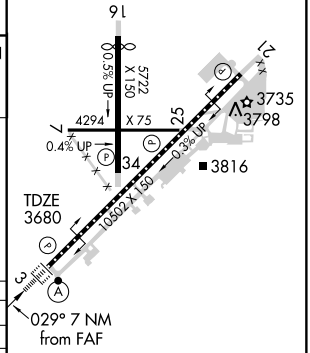
UBOCO I-SMR 8.9

VGSI and ILS glidepath not coincident.



CATEGORY	A	B	C	D
S-ILS 3	3880/18	200 (200-½)		
S- LOC 3	4160/24	480 (500-½)	4160/40 480 (500-¾)	4160/50 480 (500-1)
CIRCLING	4160-1	480 (500-1)	4160-1½ 480 (500-1½)	4240-2 560 (600-2)

ELEV 3680 D



TDZ/CL Rwy 3
MIRL Rwy 7-25
REIL Rwy 21
HIRL Rwys 3-21 and 16-34

NW-1, 03 JUN 2010 to 01 JUL 2010

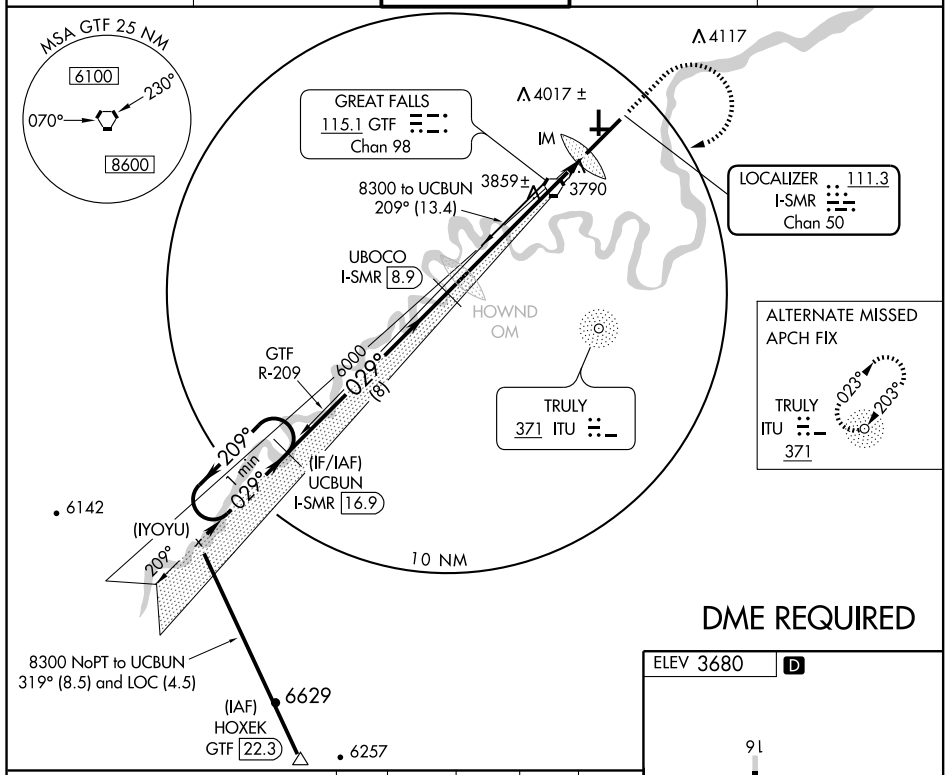
LOC/DME I-SMR	APP CRS	Rwy Idg	10502
111.3	029°	TDZE	3680
Chan 50		Apt Elev	3680

ILS RWY 3 (CAT II)
GREAT FALLS INTL (GTF)

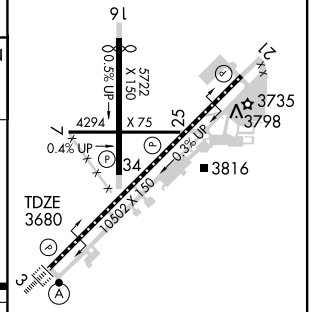
ALSF-2

MISSED APPROACH: Climb to 5000 then climbing right turn to 8300 direct GTF VORTAC then via GTF VORTAC R-209 to UCBUN/GTF VORTAC 13.4 DME and hold.

ATIS	GREAT FALLS APP CON	GREAT FALLS TOWER	GND CON	CLNC DEL
126.6 269.0	128.6 259.1	118.7 282.2	121.7 348.6	121.7 348.6



DME REQUIRED



Use I-SMR DME when on the localizer course.

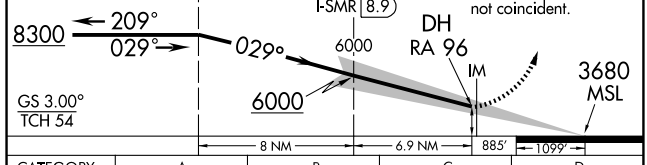
One Minute Holding Pattern

UCBUN I-SMR 16.9

5000	8300	GTF 115.1	GTF R-209	UCBUN GTF 13.4

UBOCO I-SMR 8.9

VGSI and ILS glidepath not coincident.



CATEGORY	A	B	C	D
S-ILS 3	RA 96/12 100 DA 3780			

CATEGORY II ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

TDZ/CL Rwy 3
MIRL Rwy 7-25
REIL Rwy 21
HIRL Rwys 3-21 and 16-34

NW-1, 03 JUN 2010 to 01 JUL 2010

LOC/DME I-SMR	APP CRS	Rwy Idg	10502
111.3	029°	TDZE	3680
Chan 50		Apt Elev	3680

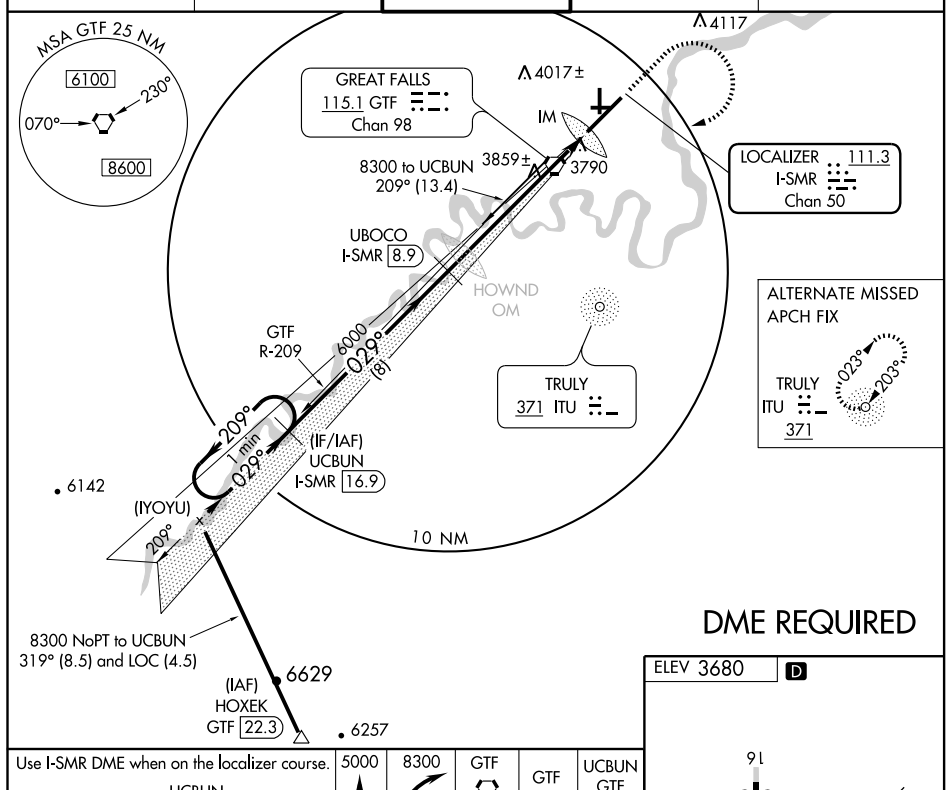
ILS RWY 3 (CAT III)

GREAT FALLS INTL (GTF)

ALSF-2

MISSED APPROACH: Climb to 5000 then climbing right turn to 8300 direct GTF VORTAC then via GTF VORTAC R-209 to UCBUN/GTF VORTAC 13.4 DME and hold.

ATIS	GREAT FALLS APP CON	GREAT FALLS TOWER	GND CON	CLNC DEL
126.6 269.0	128.6 259.1	118.7 282.2	121.7 348.6	121.7 348.6



DME REQUIRED

Use I-SMR DME when on the localizer course.

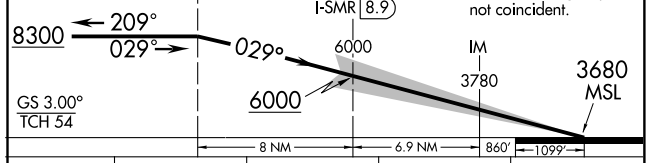
5000	8300	GTF 115.1	GTF R-209	UCBUN GTF 13.4

One Minute Holding Pattern

UCBUN I-SMR 16.9

UBOCO I-SMR 8.9

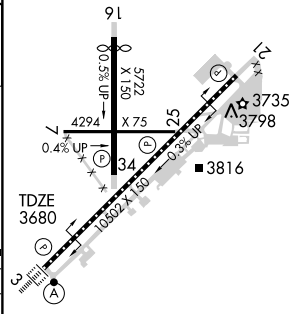
VGSI and ILS glidepath not coincident.



CATEGORY	A	B	C	D
S-ILS 3	CAT IIIa		RVR 07	
S-ILS 3	CAT IIIb		RVR 06	
S-ILS 3	CAT IIIc		NA	

CATEGORY III ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

ELEV 3680 D



TDZ/CL Rwy 3
MIRL Rwy 7-25
REIL Rwy 21
HIRL Rwys 3-21 and 16-34

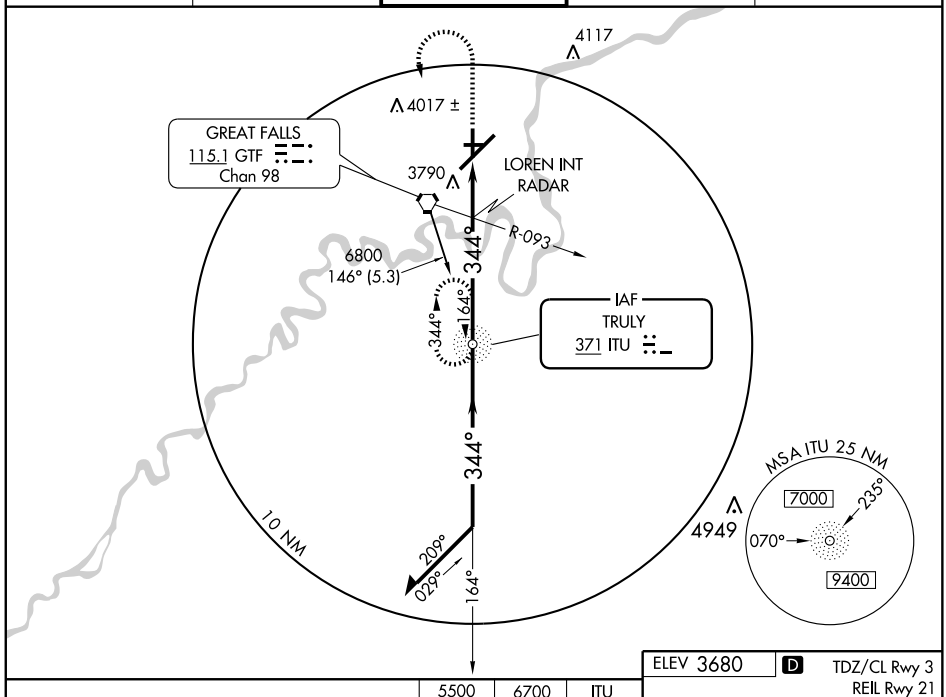
NW-1, 03 JUN 2010 to 01 JUL 2010

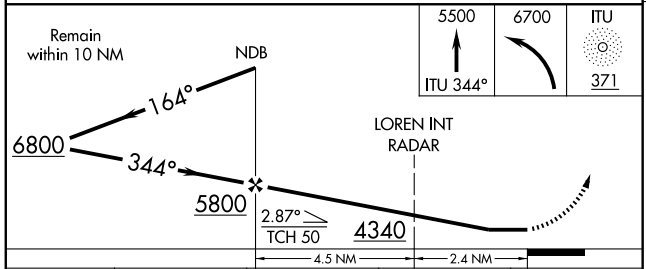
NDB ITU	APP CRS		
371	344°	Rwy Idg	5070
		TDZE	3667
		Apt Elev	3680

NDB RWY 34
GREAT FALLS INTL (GTF)

MISSED APPROACH: Climb to 5500 via ITU NDB 344° bearing, then left turn to 6700 direct ITU NDB and hold.

ATIS	GREAT FALLS APP CON	GREAT FALLS TOWER	GND CON	CLNC DEL
126.6 269.0	128.6 259.1	118.7 282.2	121.7 348.6	121.7 348.6

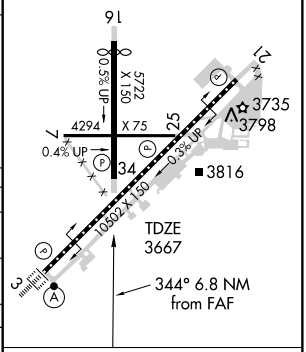




CATEGORY	A	B	C	D
S-34	4340-1	673 (700-1)	4340-2 673 (700-2)	4340-2¼ 673 (700-2¼)
CIRCLING	4340-1	660 (700-1)	4340-2 660 (700-2)	4340-2¼ 660 (700-2¼)
LOREN INT/RADAR MINIMUMS				
S-34	4120-1	453 (500-1)	4120-1¼ 453 (500-1¼)	4120-1½ 453 (500-1½)
CIRCLING	4120-1 440 (500-1)	4140-1 460 (500-1)	4140-1½ 460 (500-1½)	4240-2 560 (600-2)

ELEV 3680 D

TDZ/CL Rwy 3
REIL Rwy 21
MIRL Rwy 7-25
HIRL Rwys 3-21 and 16-34



FAF to MAP 6.8 NM

Knots	60	90	120	150	180
Min:Sec	6:48	4:32	3:24	2:43	2:16

NW-1, 03 JUN 2010 to 01 JUL 2010

WAAS	APP CRS	Rwy Idg	10502
CH 70602	029°	TDZE	3680
W03A		Apt Elev	3680

RNAV (GPS) RWY 3
GREAT FALLS INTL (GTF)

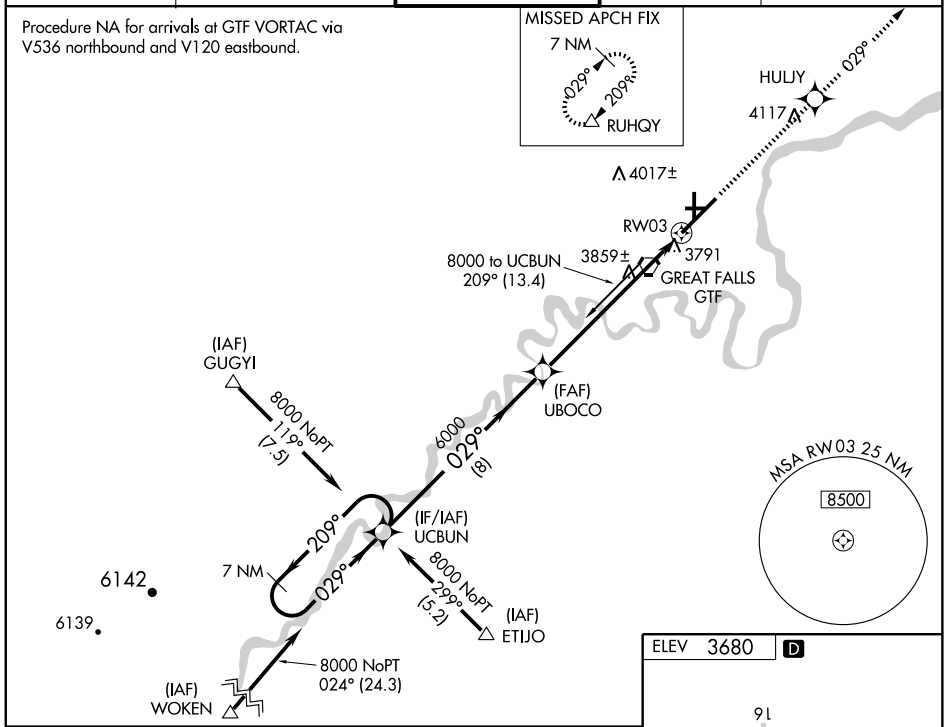
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -22°C (-7°F) or above 42°C (107°F).

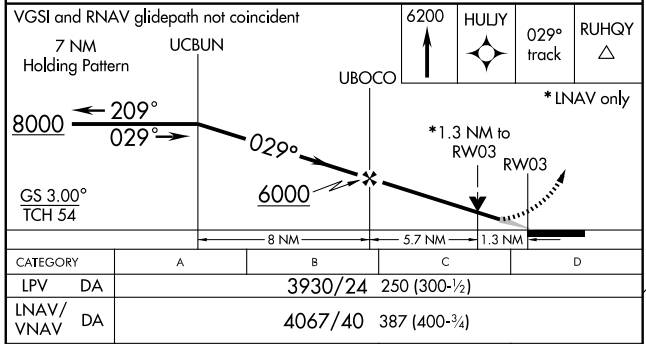
ALSF-2

MISSED APPROACH: Climb to 6200 direct HULJY and via 029° track to RUHQY and hold.

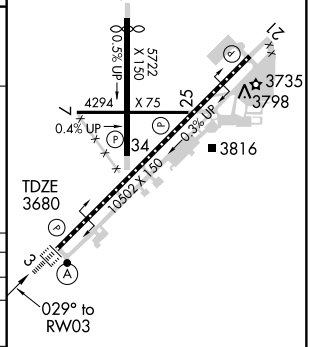
ATIS	GREAT FALLS APP CON	GREAT FALLS TOWER	GND CON	CLNC DEL
126.6 269.0	128.6 259.1	118.7 282.2	121.7 348.6	121.7 348.6

Procedure NA for arrivals at GTF VORTAC via V536 northbound and V120 eastbound.





CATEGORY	A	B	C	D
LPV DA	3930/24 250 (300-½)			
LNAV/VNAV DA	4067/40 387 (400-¾)			
LNAV MDA	4160/24 480 (500-½)		4160/40 480 (500-¾)	4160/50 480 (500-1)
CIRCLING	4160-1 480 (500-1)		4160-1½ 480 (500-1½)	4240-2 560 (600-2)



TDZ/CL Rwy 3
REIL Rwy 21
MIRL Rwy 7-25
HIRL Rwys 3-21 and 16-34

NW-1, 03 JUN 2010 to 01 JUL 2010

VORTAC GTF 115.1 Chan 98	APP CRS 029°	Rwy Idg 10502 TDZE 3680 Apt Elev 3680

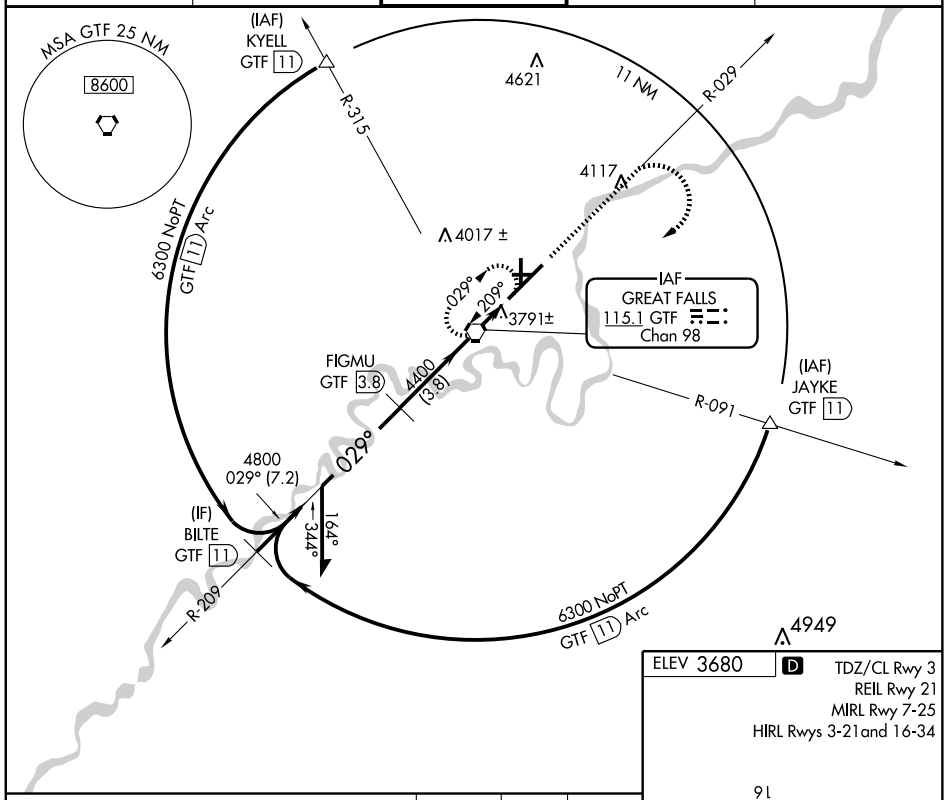
VOR/DME RWY 3
GREAT FALLS INTL (GTF)

T For inoperative ALSF-2, increase S-3 Cat. D visibility to RVR 6000.

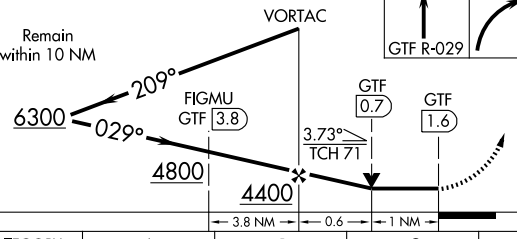
ALSF-2

MISSED APPROACH: Climb to 5000 via GTF VORTAC R-029 then climbing right turn to 6300 direct GTF VORTAC and hold, continue climb-in-hold to 6300.

ATIS	GREAT FALLS APP CON	GREAT FALLS TOWER	GND CON	CLNC DEL
126.6 269.0	128.6 259.1	118.7 282.2	121.7 348.6	121.7 348.6



VGSI and descent angles not coincident.

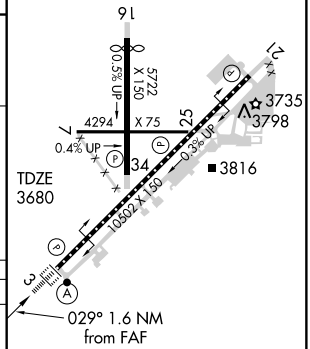


5000 GTF R-029	6300	GTF 115.1

CATEGORY	A	B	C	D
S-3	4060/24 380 (400-½)			4060/50 380 (400-1)
CIRCLING	4120-1 440 (500-1)	4140-1 460 (500-1)	4140-1½ 460 (500-1½)	4240-2 560 (600-2)

ELEV 3680 D

TDZ/CL Rwy 3
REIL Rwy 21
MIRL Rwy 7-25
HIRL Rwys 3-21and 16-34



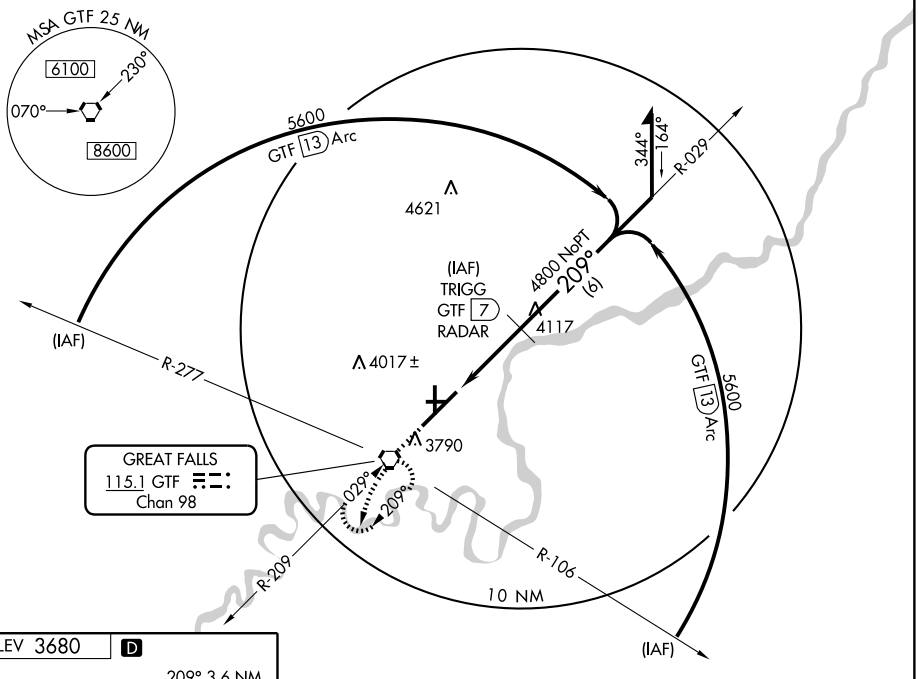
NW-1, 03 JUN 2010 to 01 JUL 2010

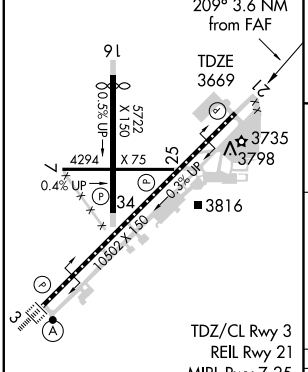
VORTAC GTF 115.1 Chan 98	APP CRS 209°	Rwy Idg 10502 TDZE 3669 Apt Elev 3680

VOR RWY 21
GREAT FALLS INTL (GTF)

MISSED APPROACH: Climb direct to GTF VORTAC continue climb to 5500 in GTF VORTAC holding pattern.

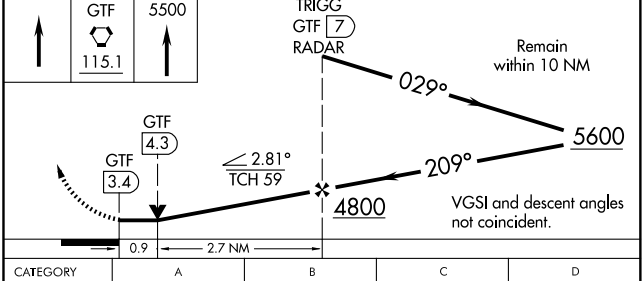
ATIS	GREAT FALLS APP CON	GREAT FALLS TOWER	GND CON	CLNC DEL
126.6 269.0	128.6 259.1	118.7 282.2	121.7 348.6	121.7 348.6





DME or RADAR REQUIRED

4949



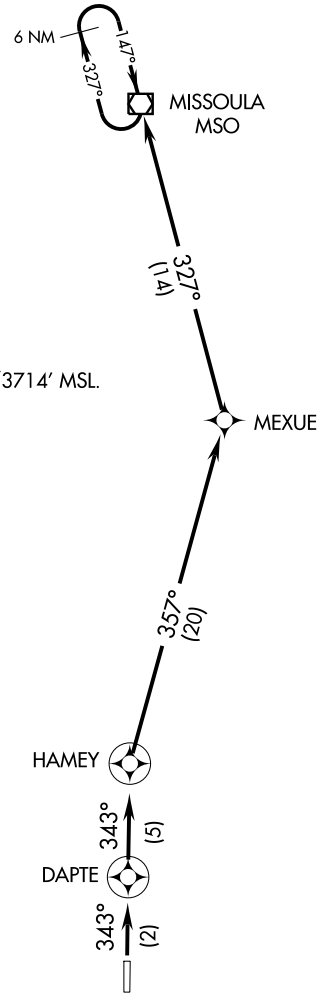
FAF to MAP 3.6 NM					
Knots	60	90	120	150	180
Min:Sec	3:36	2:24	1:48	1:26	1:12

CATEGORY	A	B	C	D
S-21	4000-1 331 (400-1)			
CIRCLING	4120-1 440 (500-1)	4140-1 460 (500-1)	4140-1½ 460 (500-1½)	4240-2 560 (600-2)

NW-1, 03 JUN 2010 to 01 JUL 2010

HAMEY ONE DEPARTURE (RNAV) (OBSTACLE)

SPOKANE DEP CON
124.9 298.95
SALT LAKE CITY CENTER
133.4 285.4



TAKE-OFF MINIMUMS
Rwy 16: NA, Obstacles.
Rwy 34: Standard.

TAKE-OFF OBSTACLES
Rwy 34: tree 1044' from DER, 258' right of centerline, 80' AGL/3714' MSL.
Rwy 16: NA, Obstacles.

NOTE: 1. GPS Required.
2. RNAV 1

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 16: Not authorized, Obstacles.
TAKE-OFF RWY 34: Climb to 9000 direct DAPTE WP, direct HAMEY WP, then via depicted route to MSO VOR/DME, Thence....

....all aircraft climb in MSO VOR/DME holding pattern (hold NW, RT, 147° inbound) to cross MSO VOR/DME at or above MEA/MCA for direction of flight before proceeding on course.

APP CRS	Rwy Idg	N/A
163°	TDZE	N/A
	Apt Elev	3642

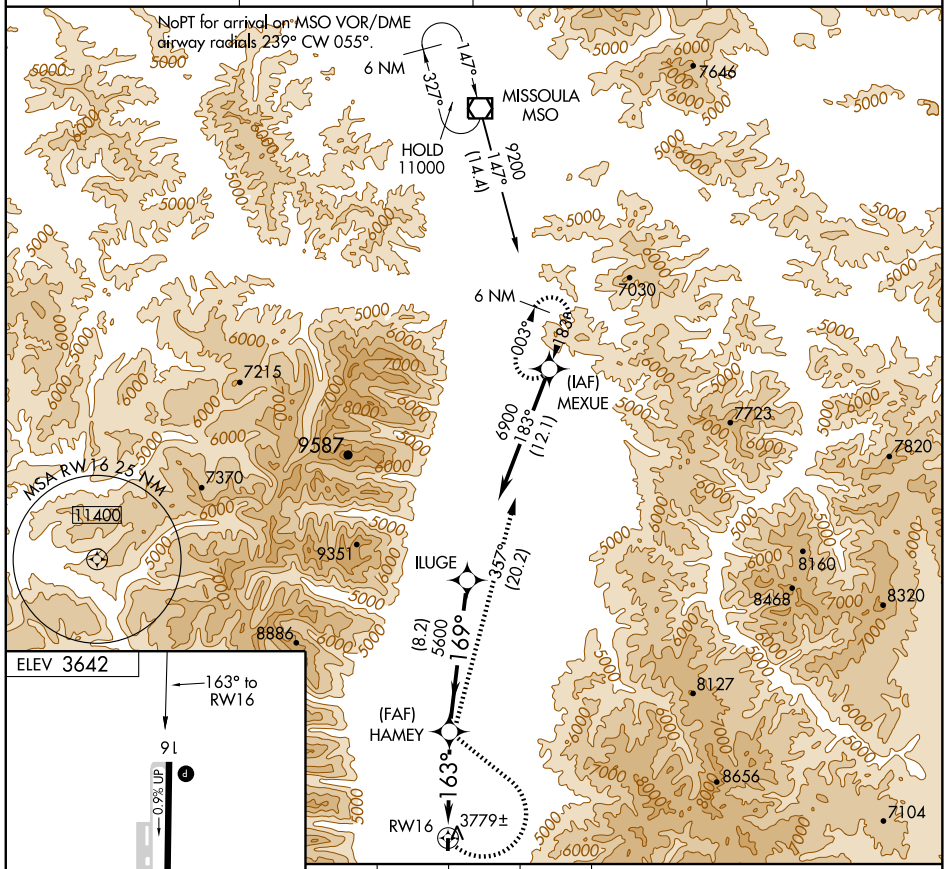
RNAV (GPS)-A

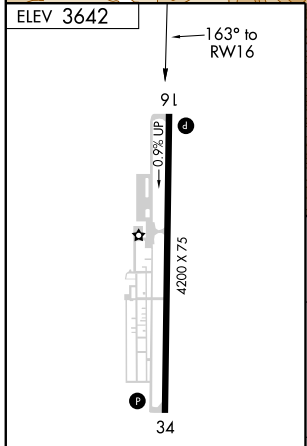
HAMILTON/ RAVALLI COUNTY (6S5)

DME/DME RNP-0.3 NA.
NA When local altimeter setting not received, procedure NA.
Procedure NA at night.

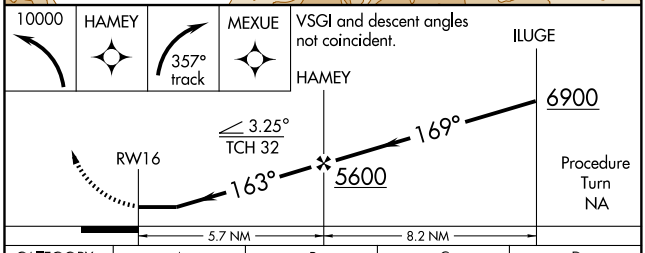
MISSED APPROACH: Climbing left turn to 10000 direct HAMEY WP and right turn via 357° track to MEXUE WP and hold.

AWOS-A	SPOKANE APP CON ★	SALT LAKE CITY CENTER	UNICOM
119.825	124.9 298.95	133.4 285.4	122.8 (CTAF) L





MIRL Rwy 16-34 L



CATEGORY	A	B	C	D
CIRCLING	4660-1¼ 1018 (1100-1¼)	4660-1½ 1018 (1100-1½)	NA	

NW-1, 03 JUN 2010 to 01 JUL 2010

APP CRS	Rwy Idg	N/A
001°	TDZE	N/A
	Apt Elev	3642

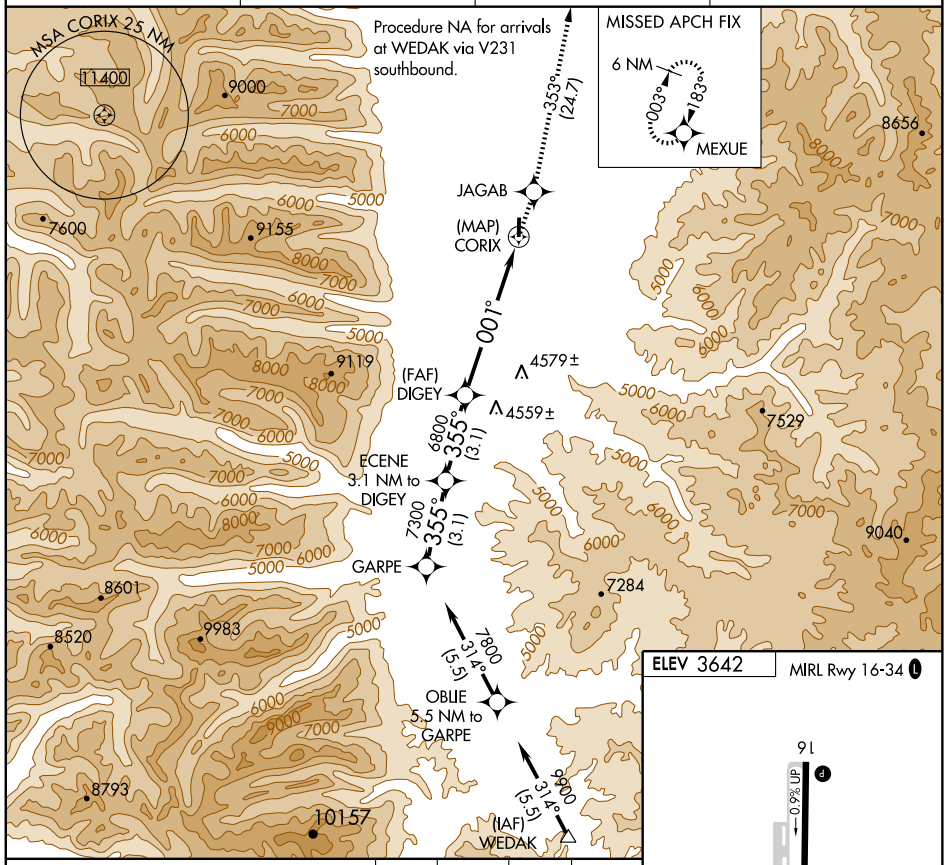
RNAV (GPS)-B

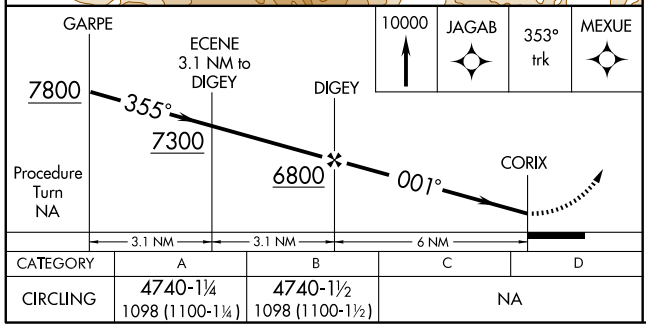
HAMILTON/ RAVALLI COUNTY (6S5)

DME/DME RNP-0.3 NA.
When local altimeter setting not received, procedure NA.
Procedure NA at night.

MISSED APPROACH: Climb to 10000 direct JAGAB WP and via 353° track to MEXUE WP and hold.

AWOS-A	SPOKANE APP CON ★	SALT LAKE CITY CENTER	UNICOM
119.825	124.9 298.95	132.4 338.3	122.8 (CTAF) L





CATEGORY	A	B	C	D
CIRCLING	4740-1¼ 1098 (1100-1¼)	4740-1½ 1098 (1100-1½)	NA	

NW-1, 03 JUN 2010 to 01 JUL 2010

WAAS	APP CRS	Rwy Idg	5205
CH 99316	077°	TDZE	2585
W08A		Apt Elev	2591

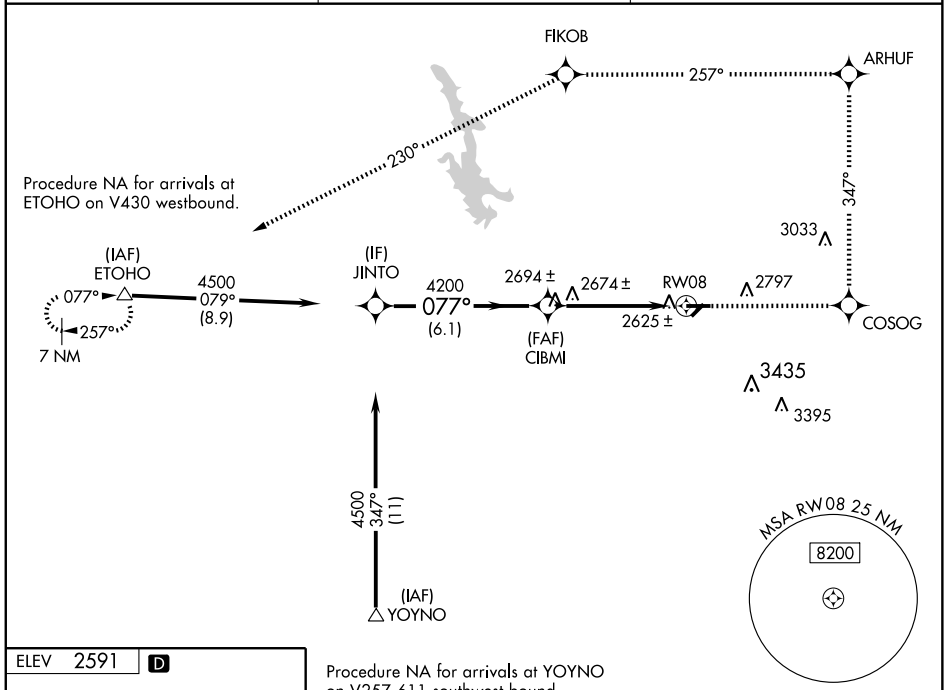
RNAV (GPS) RWY 8

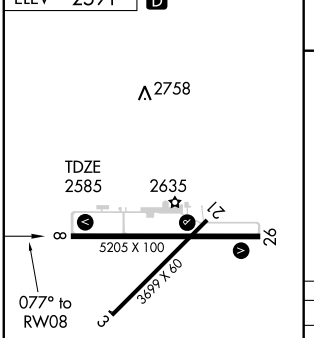
HAVRE CITY-COUNTY (HVR)

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -20°C (-4°F) or above 43°C (109°F). DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climb to 8000 direct COSOG and left turn via track 347° to ARHUF and left turn via track 257° to FIKOB and via track 230° to ETOHO and hold.

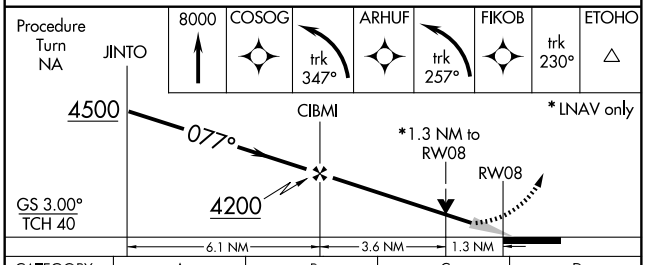
ASOS	GREAT FALLS RADIO	UNICOM
135.225	123.65	122.8 (CTAF) L





REIL Rwys 8 and 26 L
MIRL Rwy 8-26
MIRL Rwy 3-21 L

Procedure NA for arrivals at YOYNO on V257-611 southwest bound.



CATEGORY	A	B	C	D
LPV DA	2835-1 250 (300-1)			
LNAV/VNAV DA	2906-1¼ 321 (400-1¼)			
LNAV MDA	3020-1 435 (500-1)		3020-1¼ 435 (500-1¼)	3020-1½ 435 (500-1½)
CIRCLING	3060-1 469 (500-1)	3100-1 509 (600-1)	3100-1½ 509 (600-1½)	3160-2 569 (600-2)

NW-1, 03 JUN 2010 to 01 JUL 2010

WAAS	APP CRS	Rwy Idg	5205
CH **48816**	**257°**	TDZE	**2586**
W26A		Apt Elev	**2591**

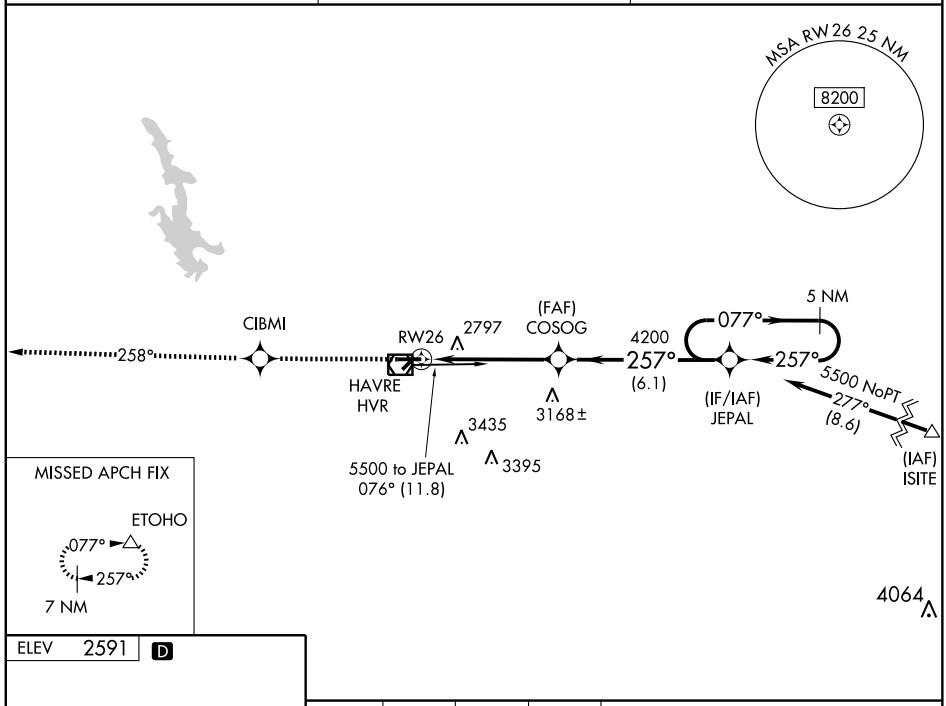
RNAV (GPS) RWY 26

HAVRE CITY-COUNTY (HVR)

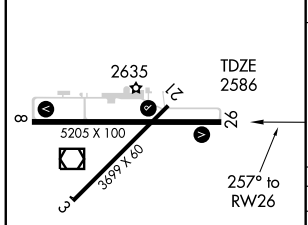
When VGSI inoperative, procedure NA at night. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -20°C (-4°F) or above 43°C (109°F). DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.

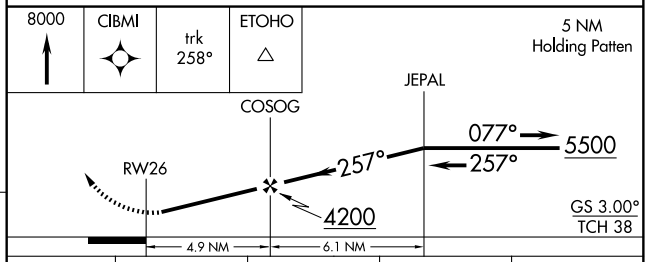
MISSED APPROACH: Climb to 8000 direct CIBMI and via track 258° to ETOHO and hold, continue climb-in-hold to 8000.

ASOS	GREAT FALLS RADIO	UNICOM
135.225	**123.65**	**122.8** (CTAF) L



ELEV 2591 D





CATEGORY	A	B	C	D
LPV DA	2836-1 250 (300-1)			
LNAV/VNAV DA	3097-1¾ 511 (600-1¾)			
LNAV MDA	3060-1 474 (500-1)		3060-1¼ 474 (500-1¼)	3060-1½ 474 (500-1½)
CIRCLING	3060-1 469 (500-1)	3100-1 509 (600-1)	3100-1½ 509 (600-1½)	3160-2 569 (600-2)

REIL Rwys 8 and 26 L
MIRL Rwy 8-26
MIRL Rwy 3-21 L

NW-1, 03 JUN 2010 to 01 JUL 2010

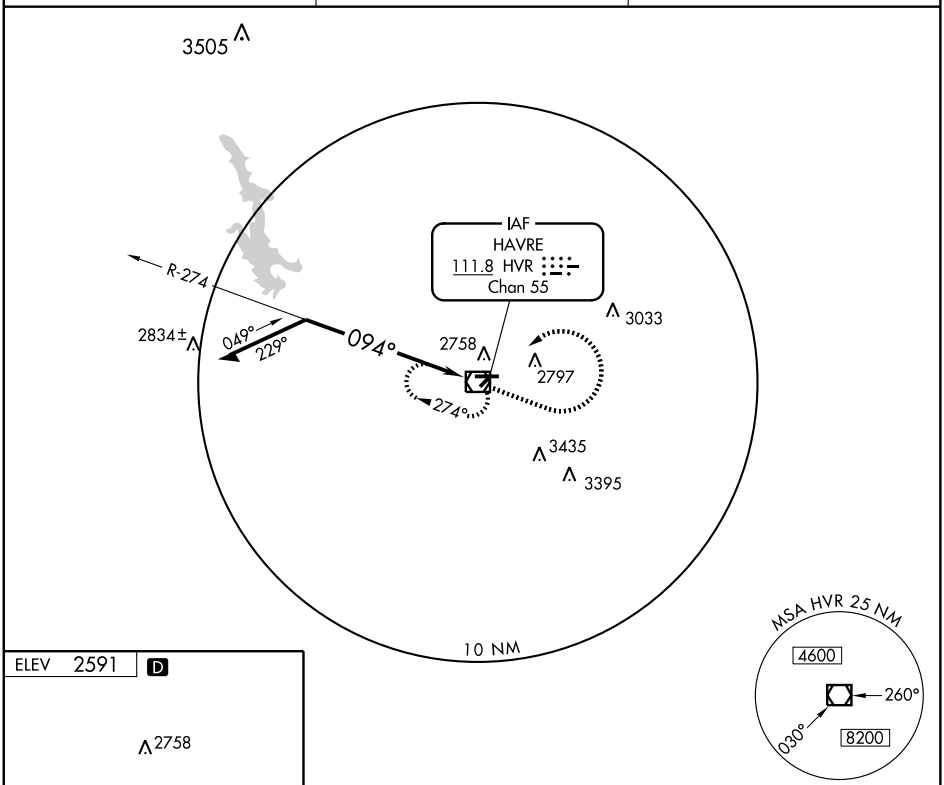
VOR/DME HVR	APP CRS	Rwy Idg	5205
111.8	094°	TDZE	2585
Chan 55		Apt Elev	2591

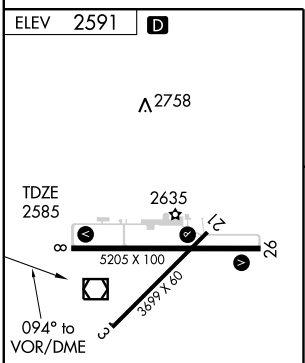
VOR RWY 8

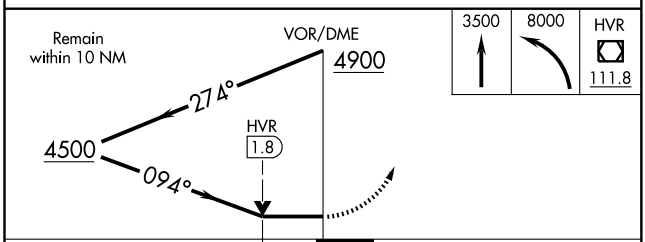
HAVRE CITY-COUNTY (HVR)

MISSED APPROACH: Climb to 3500 then climbing left turn to 8000 direct HVR VOR/DME and hold, continue climb-in-hold to 8000.

ASOS	GREAT FALLS RADIO	UNICOM
135.225	123.65	122.8 (CTAF) L







CATEGORY	A	B	C	D
S-8	3140-1 555 (600-1)		3140-1½ 555 (600-1½)	3140-1¾ 555 (600-1¾)
CIRCLING	3140-1 549 (600-1)		3140-1½ 549 (600-1½)	3160-2 569 (600-2)

REIL Rwys 8 and 26 L
MIRL Rwy 8-26
MIRL Rwy 3-21 L

NW-1, 03 JUN 2010 to 01 JUL 2010

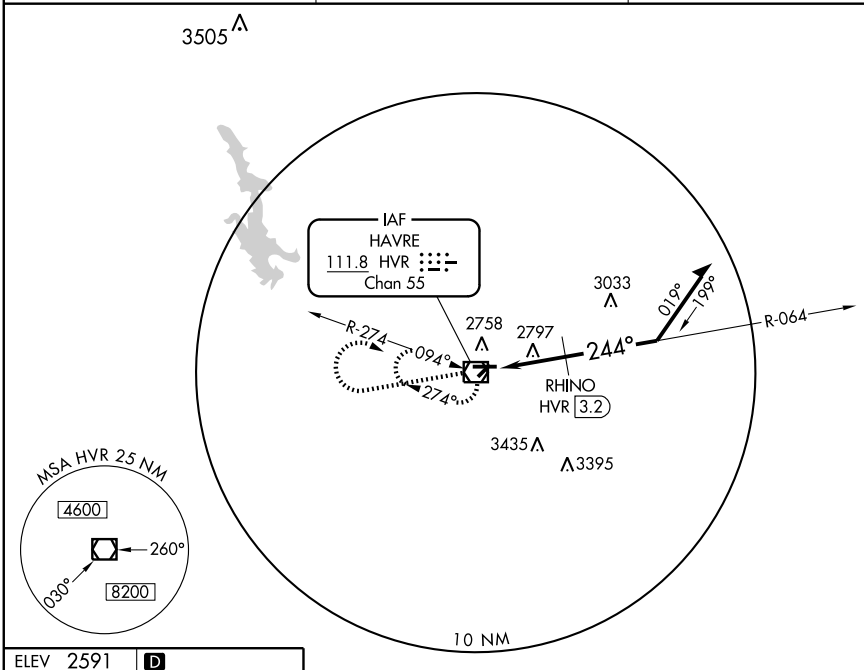
VOR/DME HVR	APP CRS	Rwy Idg	5205
111.8	244°	TDZE	2586
Chan 55		Apt Elev	2591

VOR RWY 26
HAVRE CITY-COUNTY (HVR)

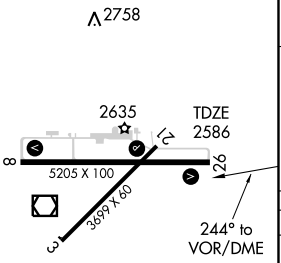
T A Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 4500 then climbing right turn to 8000 direct HVR VOR/DME and hold, continue climb-in-hold to 8000.

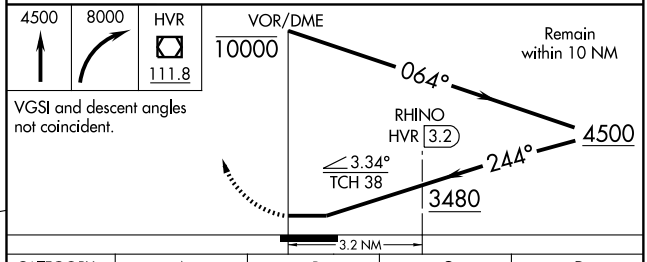
ASOS	GREAT FALLS RADIO	UNICOM
135.225	123.65	122.8 (CTAF) L



ELEV 2591 D

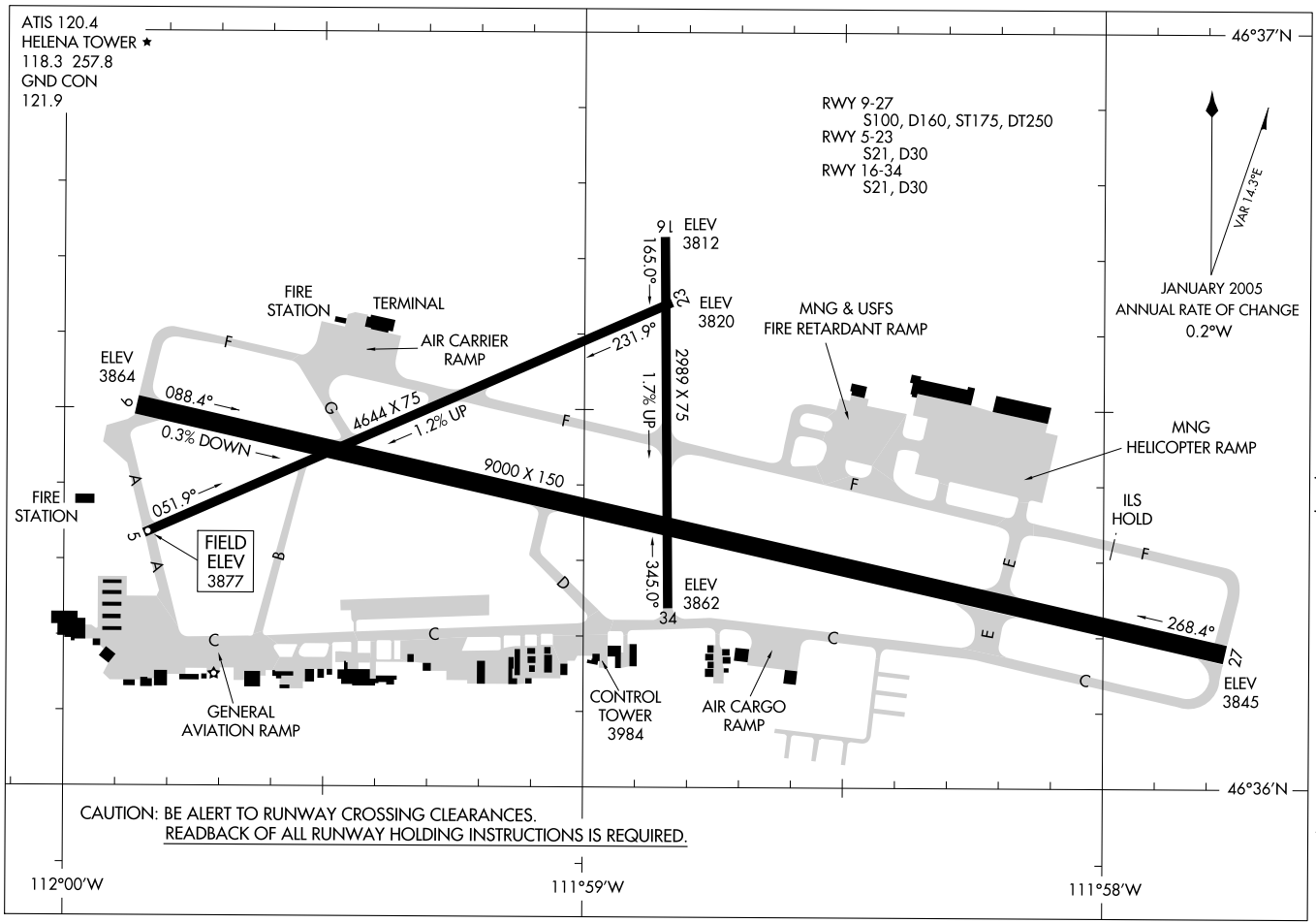


REIL Rwys 8 and 26 L
MIRL Rwy 8-26
MIRL Rwy 3-21 L



CATEGORY	A	B	C	D
S-26	3480-1¼ 894 (900-1¼)		3480-2¾ 894 (900-2¾)	3480-3 894 (900-3)
CIRCLING	3480-1¼ 889 (900-1¼)		3480-2¾ 889 (900-2¾)	3480-3 889 (900-3)
RHINO FIX MINIMUMS				
S-26	3060-1 474 (500-1)		3060-1¼ 474 (500-1¼)	3060-1½ 474 (500-1½)
CIRCLING	3060-1 469 (500-1)	3100-1 509 (600-1)	3100-1½ 509 (600-1½)	3160-2 569 (600-2)

NW-1, 03 JUN 2010 to 01 JUL 2010



AIRPORT DIAGRAM

AL-192 (FAA)

HELENA RGNL (HLN)
HELENA, MONTANA

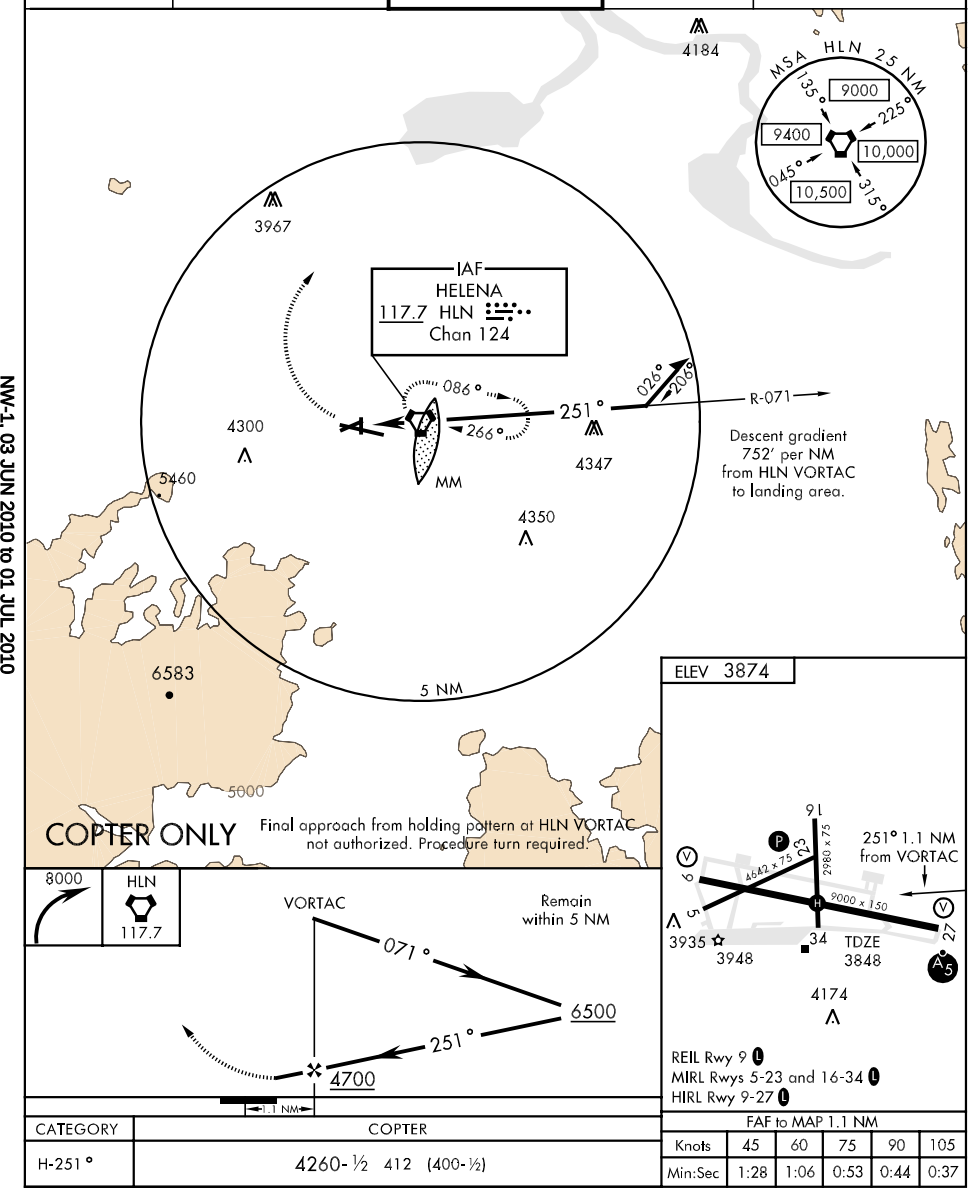
COPTER VOR 251°

VORTAC HLN 117.7 Chan 124	APCH CRS 251°	Rwy Idg N/A TDZE 3848 Arpt Elev 3874	AL-192 [USA]	HELENA REGIONAL (KHLN)

NA when tower clsd.

MISSED APROACH: Climbing right turn to 8000 direct HLN VORTAC and hold.

ATIS ★	HELENA APP CON	HELENA TOWER ★	GND CON	UNICOM
120.4	119.5 229.4	118.3 (CTAF) 257.8	121.9	122.95



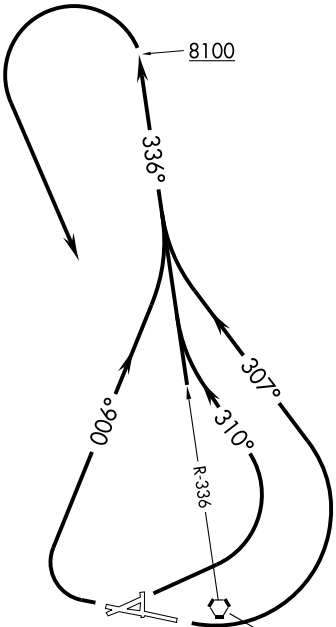
CATEGORY	COPTER
H-251°	4260-½ 412 (400-½)

FAF to MAP 1.1 NM					
Knots	45	60	75	90	105
Min:Sec	1:28	1:06	0:53	0:44	0:37

HELENA THREE DEPARTURE

SL-192 (FAA)

HELENA TOWER ★
118.3 (CTAF) 257.8
HELENA DEP CON ★
119.5 229.4
SALT LAKE CENTER
133.4 285.4



HELENA
117.7 HLN
Chan 124
N46° 36.41' - W111° 57.21'
L-13, H-1

TAKE-OFF MINIMUMS

Rwy 5: Standard with minimum climb of 250 feet per NM to 8100.
Rwy 9: Standard with minimum climb of 240 feet per NM to 8100.
Rwys 16, 23: NA- obstacles.
Rwy 27: Standard with minimum climb of 390 feet per NM to 8100.
Rwy 34: NA- ATC.

TAKE-OFF OBSTACLE NOTES

Rwy 5: Ground beginning 5' from DER, 495' right of centerline, up to 3826' MSL.
Fence beginning 423' from DER, 331' right of centerline, up to 10' AGL/ 3832' MSL.
Rwy 27: Building 1593' from DER, 731' left of centerline, 58'AGL/6385' MSL.
Ground beginning 101' from DER, 346' left of centerline, up to 3871' MSL.
Tree 1567' from DER, 616' left of centerline, 47' AGL/ 3906' MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 5: Climbing left turn heading 310° to intercept HLN VORTAC R-336 to 8100', then climbing left turn to 9000' via HLN VORTAC R-336 to HLN VORTAC.

TAKE-OFF RUNWAY 9: Climbing left turn heading 307° to intercept HLN VORTAC R-336 to 8100', then climbing left turn to 9000' via HLN VORTAC R-336 to HLN VORTAC.

TAKE-OFF RUNWAY 27: Climbing right turn heading 006° to intercept HLN VORTAC R-336 to 8100', then climbing left turn to 9000' via HLN VORTAC R-336 to HLN VORTAC.

NW-1, 03 JUN 2010 to 01 JUL 2010

LOC I-HLN	APP CRS	Rwy Idg	9000
110.1	267°	TDZE	3852
		Apt Elev	3877

ILS or LOC Y RWY 27

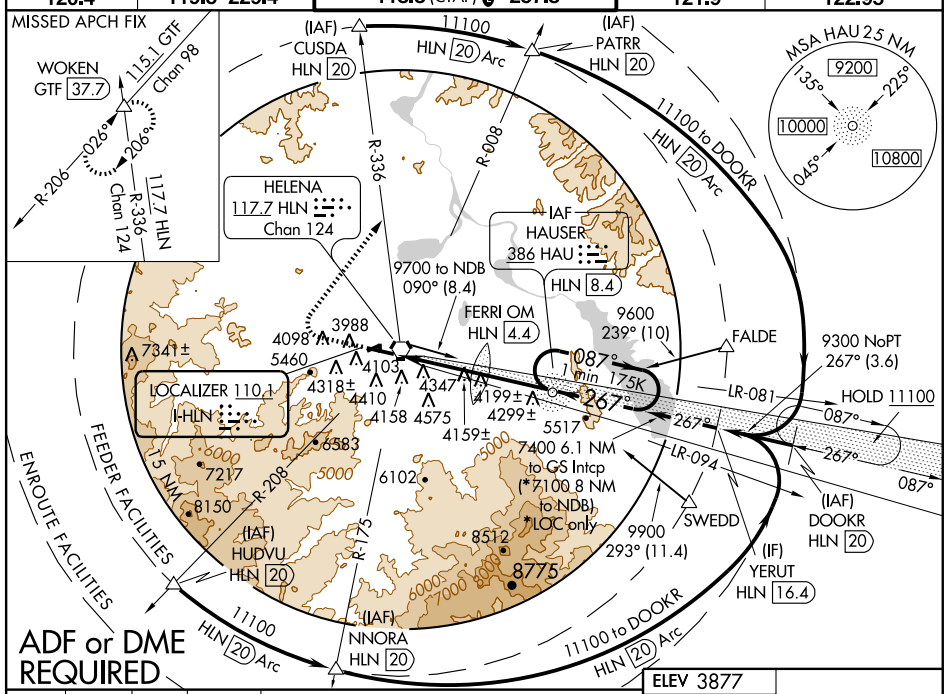
HELENA RGNL (HLN)

Circling NA for Cats. D and E south of Rwy 9-27. Inoperative table does not apply to S-LOC 27 Cats. A-B. For inoperative MALSR, increase S-ILS 27 all Cats. visibility to 2 miles, S-LOC 27 Cat. E visibility to 3 miles, FERRI fix minimums: S-LOC 27 Cat E visibility to 2½ miles. DME arc to final approach required for turbojet aircraft. Holding at HAU NDB authorized for Category A and B aircraft only.

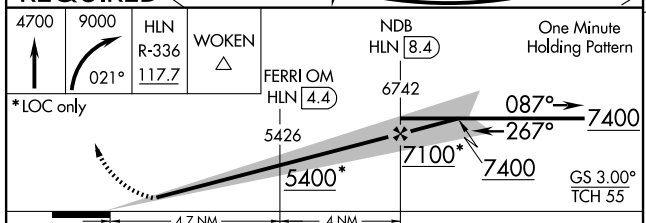
MALSR

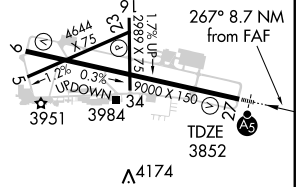
MISSED APPROACH: Climb to 4700 then climbing right turn to 9000 via heading 021° and HLN VORTAC R-336 to WOKEN INT and hold.

ATIS	HELENA APP CON *	HELENA TOWER *	GND CON	UNICOM
120.4	119.5 229.4	118.3 (CTAF) L 257.8	121.9	122.95



ELEV 3877





CATEGORY	A	B	C	D	E
S-ILS 27	4402-1½ 550 (600-1½)				
S-LOC 27	5400-1¼ 1548 (1600-1¼)	5400-1½ 1548 (1600-1½)	5400-2½ 1548 (1600-2½)		
CIRCLING	5400-1¼ 1523 (1600-1¼)	5400-1½ 1523 (1600-1½)	5400-3 1523 (1600-3)		

FERRI FIX MINIMUMS *

S-LOC 27	4560-½ 708 (700-½)	4560-1½ 708 (700-1½)	4560-1¾ 708 (700-1¾)	4560-2 708 (700-2)
CIRCLING	4640-1 763 (800-1)	4740-2½ 863 (900-2½)	4740-2¾ 863 (900-2¾)	4840-3 963 (1000-3)

REIL Rwy 9 L
MIRL Rwys 5-23 and 16-34 L
HIRL Rwy 9-27 L

FAF to MAP 8.7 NM

Knots	60	90	120	150	180
Min:Sec	8:42	5:48	4:21	3:29	2:54

NW-1, 03 JUN 2010 to 01 JUL 2010

LOC I-HLN	APP CRS	Rwy Idg	9000
110.1	267°	TDZE	3852
		Apt Elev	3877

ILS or LOC Z RWY 27

HELENA RGNL (HLN)

Circling NA for Cats. D and E south of Rwy 9-27. DME Arc to final approach required for turbojet aircraft. Holding at HAU NDB authorized for Category A and B aircraft only. Inoperative table does not apply to S-LOC 27 Cats. A-B. For inoperative MALSR, increase S-LOC 27 Cat. E visibility to 3 miles, FERRI fix minimums: S-LOC 27 Cat E visibility to 3 miles.

MALSR

MISSED APPROACH: Climb to 4400 then climbing right turn to 9000 via heading 021° and HLN VORTAC R-336 to WOKEN INT and hold.

ATIS	HELENA APP CON *	HELENA TOWER *	GND CON	UNICOM
120.4	119.5 229.4	118.3 (CTAF) L 257.8	121.9	122.95

MISSED APCH FIX

WOKEN GTF 37.7

115.1 GTF Chan 98

117.7 HLN Chan 124

R-206 026° 206° R-336

Missed approach obstructions require a minimum climb gradient of 320 feet/NM. If unable to meet rate of climb, see ILS or LOC Y RWY 27.

(IAF) CUSDA HLN 20

(IAF) PATRR HLN 20

HLN 20 Arc 11100

11100 to DOOKR HLN 20 Arc

MSA HAU 25 NM

135° 9200 225°

10000

045° 10800

HELENA 117.7 HLN Chan 124

R-336 R-008

IAF HAUSER 386 HAU

HLN 8.4

9700 to NDB 090° (8.4)

FERRI OM HLN 4.4

9600 239° (10)

FALDE

9300 NoPT 267° (3.6)

LOCALIZER 110.1 I-HLN

087° 1 min 175K 267°

LR-081

HOLD 11100 087° 267°

LR-094

267° 087°

7341± 3988 4098 5460 4103 4318± 4410 4158 4575 4347 4199± 4299± 5517 4159± 6583 7217 8150 6102 8512 8775

7400 6.1 NM to GS Intcp (*7100 8 NM to NDB) *LOC only

9900 293° (11.4)

SWEDD

(IAF) DOOKR HLN 20

(IF) YERUT HLN 16.4

FEEDER FACILITIES

ENROUTE FACILITIES

15 NM R-208 R-175

(IAF) HUDVU HLN 20

(IAF) NNORA HLN 20

11100 HLN 20 Arc

11100 to DOOKR HLN 20 Arc

ADF or DME REQUIRED

ELEV 3877

4400 9000 021°

HLN R-336 117.7

WOKEN

NDB HLN 8.4

One Minute Holding Pattern

FERRI OM HLN 4.4

6742

087° 7400

267° 7100* 7400

5426

5400*

GS 3.00° TCH 55

*LOC only

4.7 NM 4 NM



CATEGORY	A	B	C	D	E
S-ILS 27	4052-½ 200 (200-½)				
S-LOC 27	5400-1¼ 1548 (1600-1¼)	5400-1½ 1548 (1600-1½)	5400-2½ 1548 (1600-2½)		
CIRCLING	5400-1¼ 1523 (1600-1¼)	5400-1½ 1523 (1600-1½)	5400-3 1523 (1600-3)		
FERRI FIX MINIMUMS *					
S-LOC 27	4420-½ 568 (600-½)		4420-1 568 (600-1)	4420-1¼ 568 (600-1¼)	4420-1½ 568 (600-1½)
CIRCLING	4640-1 763 (800-1)	4640-1¼ 763 (800-1¼)	4740-2½ 863 (900-2½)	4740-2¾ 863 (900-2¾)	4840-3 963 (1000-3)

REIL Rwy 9 L

MIRL Rwys 5-23 and 16-34 L

HIRL Rwy 9-27 L

FAF to MAP 8.7 NM

Knots	60	90	120	150	180
Min:Sec	8:42	5:48	4:21	3:29	2:54

NW-1, 03 JUN 2010 to 01 JUL 2010

LOC I-HLN	APP CRS	Rwy Idg	N/A
110.1	087°	TDZE	N/A
		Apt Elev	3877

LOC/DME BC-C
HELENA RGNL (HLN)

DME from HLN VORTAC, simultaneous reception of I-HLN and HLN DME required.
Circling NA south of Rwy 9-27 for Cat D.

MISSED APPROACH: Climbing left turn to 9000 via HLN VORTAC R-336 to WOKEN INT and hold.

ATIS	HELENA APP CON ★	HELENA TOWER ★	GND CON	UNICOM
120.4	119.5 229.4	118.3 (CTAF) L 257.8	121.9	122.95

ALTERNATE MISSED APCH FIX
086°
266°
R-086
HELENA HLN 117.7 Chan 124

BACK COURSE

(IAF) USOBE HLN 13
6128
10 NM
9000
HLN 13 Arc
R-336
LOCALIZER 110.1 I-HLN
HELENA 117.7 HLN Chan 124

MISSED APCH FIX
WOKEN GTF 37.7
115.1 GTF Chan 98
026°
206°
R-206
117.7 HLN Chan 124
R-336

8330
R-266
(IAF) RICHD HLN 19.7
267°
086°
266°
HOLD 9800
(EVAGE)
9000 to LIKVE 131° (0.3) and LOC (6.5)
7505
(IF) LIKVE HLN 13
LR-275
UPUGE HLN 9
MUSEW HLN 7
SAKPE HLN 2.5
7800
087° (4)
4219±
6991
LR-256
7341±
7200 087° (2)
4779± 4098 3988
4103
4318±
4410
5460
4347
4158
4575
MSA HLN 25 NM
135° 225° 045° 315°
9200
9600
10200
10700
HLN 13 Arc
9000
6626±
VOCSU HLN 13
R-228
7000
7217
6583
6102
R-208
9700
HLN 13 Arc
8150
R-175
(IAF) UGACE HLN 13
10800
HLN 13 Arc
(IAF) ICADU HLN 13
8512
8775

ELEV 3877
9
33
4644 X 75
1.7% UP
2989 X 75
5
2% 0.3% UP/DOWN
34
9000 X 150
27
3951
3984
A5
Λ4174

LIKVE HLN 13
Disregard glide slope indications.
9000 HLN R-336
WOKEN
UPUGE HLN 9
MUSEW HLN 7
9000
087°
7800
7200
SAKPE HLN 2.5
Procedure Turn NA
4 NM
2 NM
4.5 NM

CATEGORY	A	B	C	D
CIRCLING	5140-1¼ 1263 (1300-1¼)	5140-1½ 1263 (1300-1½)	5140-3	1263 (1300-3)

REIL Rwy 9 L
MIRL Rwys 5-23 and 16-34 L
HIRL Rwy 9-27 L

NW-1, 03 JUN 2010 to 01 JUL 2010

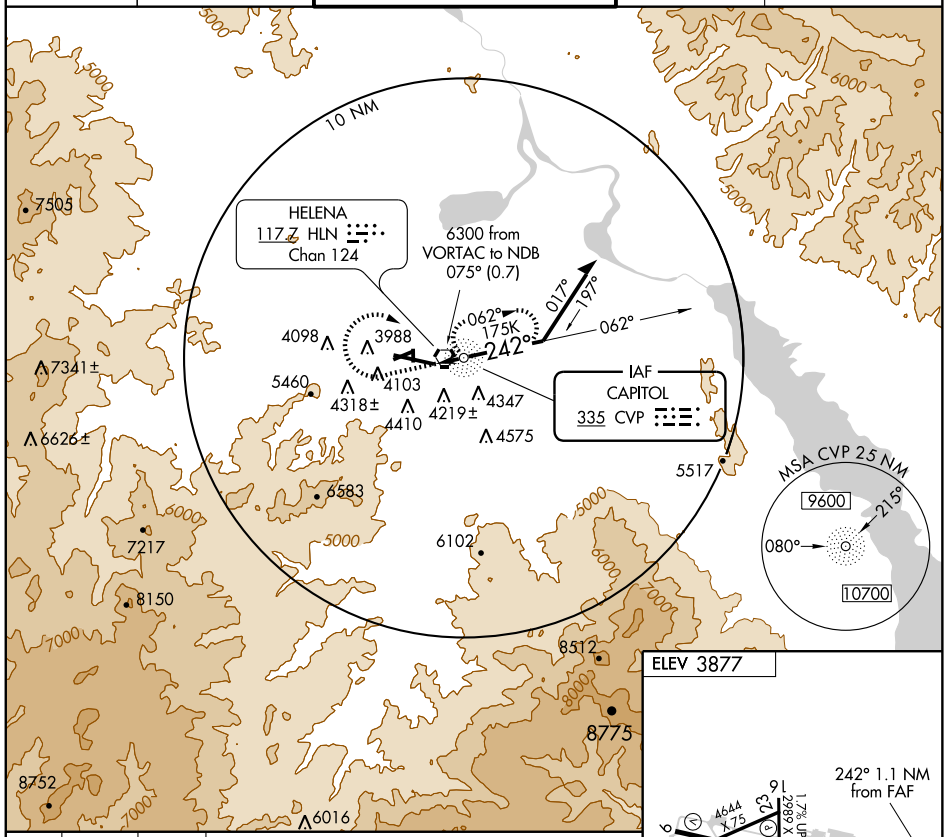
NDB CVP	APP CRS	Rwy Idg	N/A
335	242°	TDZE	N/A
		Apt Elev	3877

NDB-D

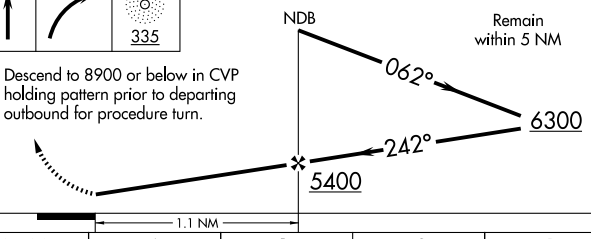
HELENA RGNL (HLN)

MISSED APPROACH: Climb to 5200, then climbing right turn to 6400 direct CVP NDB and hold.

ATIS	HELENA APP CON ★	HELENA TOWER ★	GND CON	UNICOM
120.4	119.5 229.4	118.3 (CTAF) L 257.8	121.9	122.95



5200	6400	CVP
		335



Descend to 8900 or below in CVP holding pattern prior to departing outbound for procedure turn.

REIL Rwy 9 L
MIRL Rwys 5-23 and 16-34 L
HIRL Rwy 9-27 L

CATEGORY	A	B	C	D
CIRCLING	4980-1¼ 1103 (1200-1¼)	NA		

FAF to MAP 1.1 NM					
Knots	60	90	120	150	180
Min:Sec	1:06	0:44	0:33	0:26	0:22

NW-1, 03 JUN 2010 to 01 JUL 2010

APP CRS	Rwy Idg	4644
245°	TDZE	3850
	Apt Elev	3877

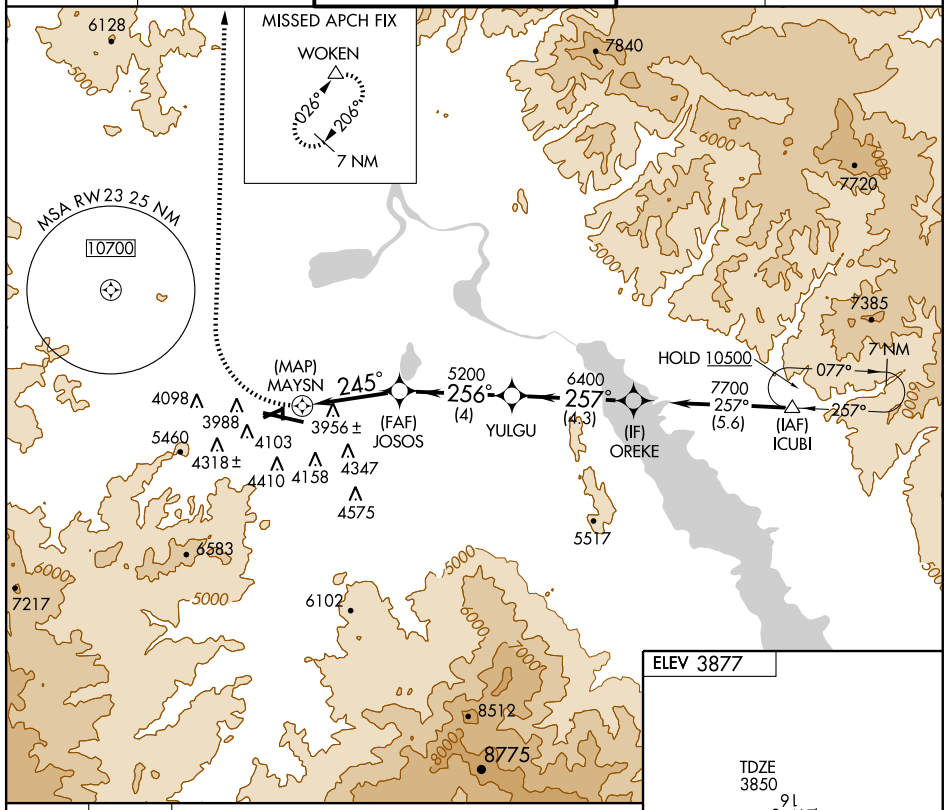
RNAV (GPS) RWY 23

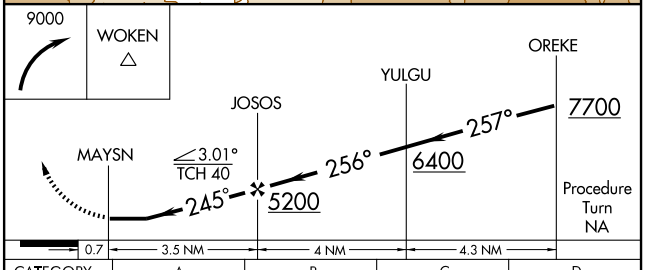
HELENA RGNL (HLN)

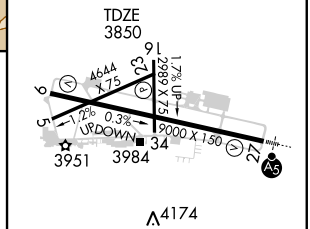
T Circling NA for Cat D south of Rwy 9/27.
A Visibility reduction by helicopters NA.
DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climbing right turn to 9000 direct WOKEN and hold, continue climb-in-hold to 9000.

ATIS	HELENA APP CON ★	HELENA TOWER ★	GND CON	UNICOM
120.4	119.5 229.4	118.3 (CTAF) L 257.8	121.9	122.95







CATEGORY	A	B	C	D
LNAV MDA	4760-1¼ 910 (900-1¼)		4760-2¾ 910 (900-2¾)	4760-3 910 (900-3)
CIRCLING	4760-1¼ 883 (900-1¼)		4760-2¾ 883 (900-2¾)	4760-3 883 (900-3)

REIL Rwy 9 L
MIRL Rwys 5-23 and 16-34 L
HIRL Rwy 9-27 L

NW-1, 03 JUN 2010 to 01 JUL 2010

WAAS	APP CRS	Rwy Idg	9000
CH 69405	267°	TDZE	3852
W27A		Apt Elev	3877

RNAV (GPS) X RWY 27

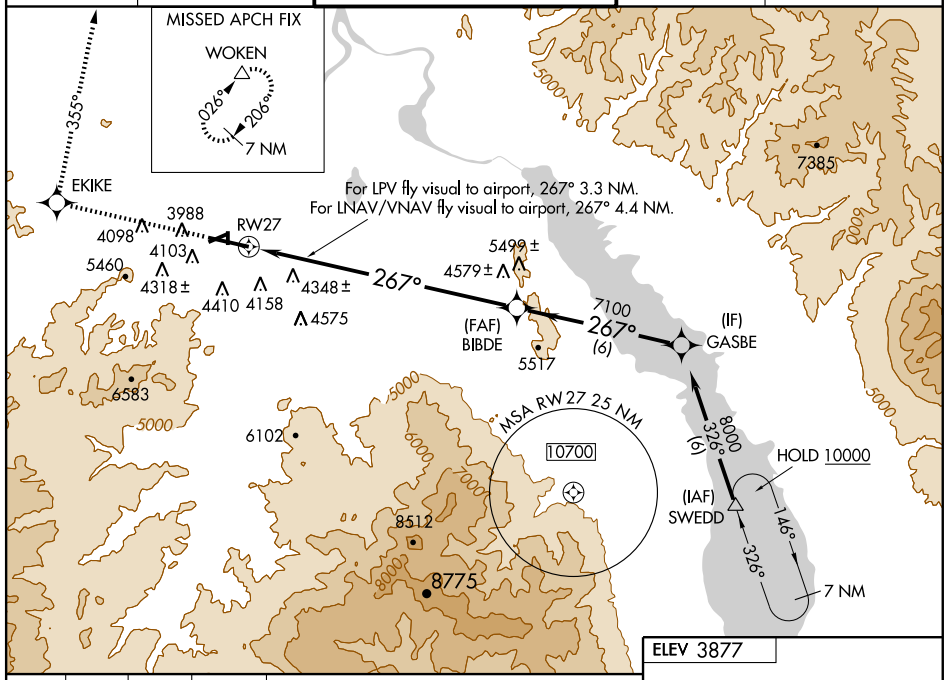
HELENA RGNL (HLN)

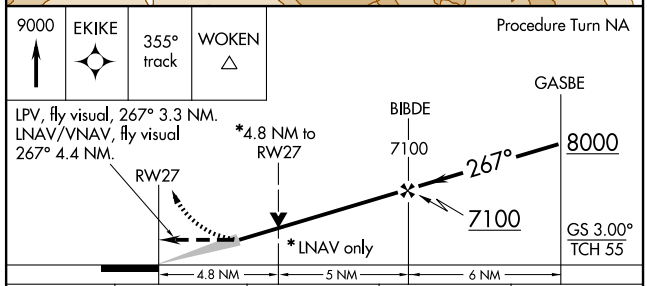
T Circling NA for Cat D south of Rwy 9-27.
A For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -22°C (-7°F) or above 42°C (107°F). DME/DME RNP- 0.3 NA. Inoperative table does not apply to LNAV Cats A-B.

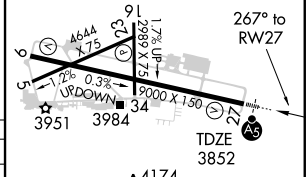
MALSR

MISSED APPROACH: Climb to 9000 direct EKIKE and via 355° track to WOKEN and hold.

ATIS	HELENA APP CON ★	HELENA TOWER ★	GND CON	UNICOM
120.4	119.5 229.4	118.3 (CTAF) L 257.8	121.9	122.95







CATEGORY	A	B	C	D
LPV DA	4965-2 1113 (1100-2)		4965-3 1113 (1100-3)	
LNAV/VNAV DA	5289-2 1437 (1500-2)		5289-3 1437 (1500-3)	
LNAV MDA	5440-1¼ 1588 (1600-1¼)	5440-1½ 1588 (1600-1½)	5440-2½ 1588 (1600-2½)	
CIRCLING	5440-1¼ 1563 (1600-1¼)	5440-1½ 1563 (1600-1½)	5440-3 1563 (1600-3)	

REIL Rwy 9 L
MIRL Rwys 5-23 and 16-34 L
HIRL Rwy 9-27 L

NW-1, 03 JUN 2010 to 01 JUL 2010

APP CRS	Rwy Idg	9000
087°	TDZE	3864
	Apt Elev	3877

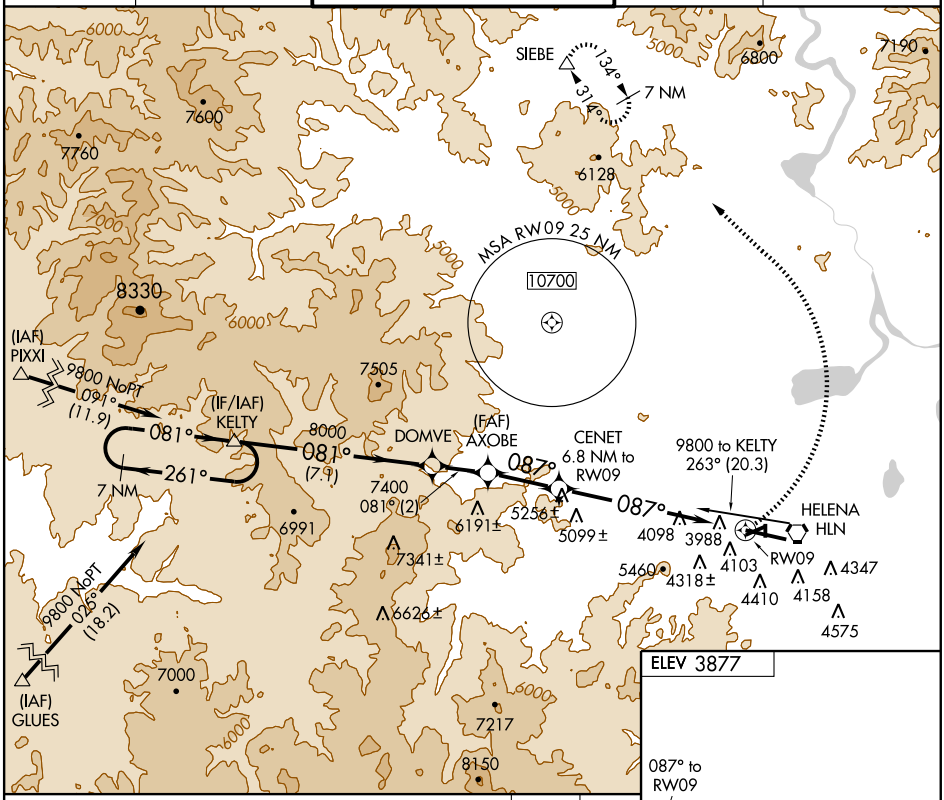
RNAV (GPS) Y RWY 9

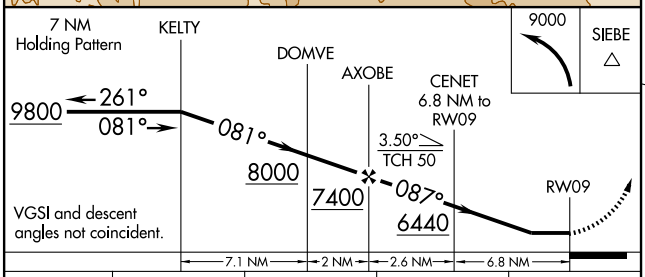
HELENA RGNL (HLN)

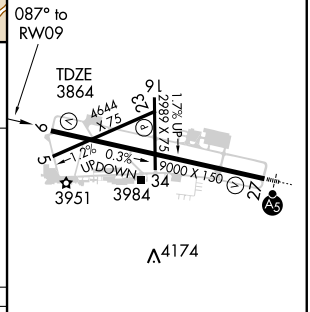
Circling NA for Cat D south of Rwy 9-27.
DME/DME RNP- 0.3 NA.
Visibilty reduction by helicopters NA.

MISSED APPROACH: Climbing left turn to 9000 direct SIEBE and hold.

ATIS	HELENA APP CON ★	HELENA TOWER ★	GND CON	UNICOM
120.4	119.5 229.4	118.3 (CTAF) L 257.8	121.9	122.95







CATEGORY	A	B	C	D
LNAV MDA	5440-1¼ 1576 (1600-1¼)	5440-1½ 1576 (1600-1½)	5440-3 1576 (1600-3)	
CIRCLING	5440-1¼ 1563 (1600-1¼)	5440-1½ 1563 (1600-1½)	5440-3 1563 (1600-3)	

REIL Rwy 9 L
MIRL Rwys 5-23 and 16-34 L
HIRL Rwy 9-27 L

NW-1, 03 JUN 2010 to 01 JUL 2010

APP CRS	Rwy Idg	9000
267°	TDZE	3852
	Apt Elev	3877

RNAV (RNP) Y RWY 27

HELENA RGNL (HLN)

GPS required. For uncompensated Baro-VNAV systems, procedure NA below -22°C (-7°F) or above 41°C (105°F). For inoperative MALSR, increase RNP 0.22* visibility to 1, and RNP 0.30** visibility to 1½ . Missed approach requires RNP less than 1.0. *Missed approach requires minimum climb of 290 feet per NM to 7700. **Missed approach requires minimum climb of 270 feet per NM to 7600; if unable, see RNAV (RNP) Z RWY 27.

MALSR

MISSED APPROACH: Climb to 13000 via 267° track to SAKPE, and via 267° track to MUSEW, and via 261° track to KELTY, and via 271° track to PIXXI and hold, continue climb-in-hold to 13000.

ATIS	HELENA APP CON *	HELENA TOWER *	GND CON	UNICOM
120.4	119.5 229.4	118.3 (CTAF) L 257.8	121.9	122.95

Procedure NA for arrivals on HIA VOR/DME airway radials 276 CW 185 and for arrivals on HLN VORTAC airway radials 009 CW 265 and for arrivals at SUZZY via V343 westbound.

MISSED APCH FIX

ELEV 3877

REIL Rwy 9 L
MIRL Rwys 5-23 and 16-34 L
HIRL Rwy 9-27 L

CATEGORY	A	B	C	D
RNP 0.22 DA*	4133-½ 281 (300-½)			
RNP 0.30 DA**	4287-1 435 (500-1)			

SPECIAL AIRCRAFT AND AIRCREW AUTHORIZATION REQUIRED

NW-1, 03 JUN 2010 to 01 JUL 2010

APP CRS	Rwy Idg	9000
087°	TDZE	3864
	Apt Elev	3877

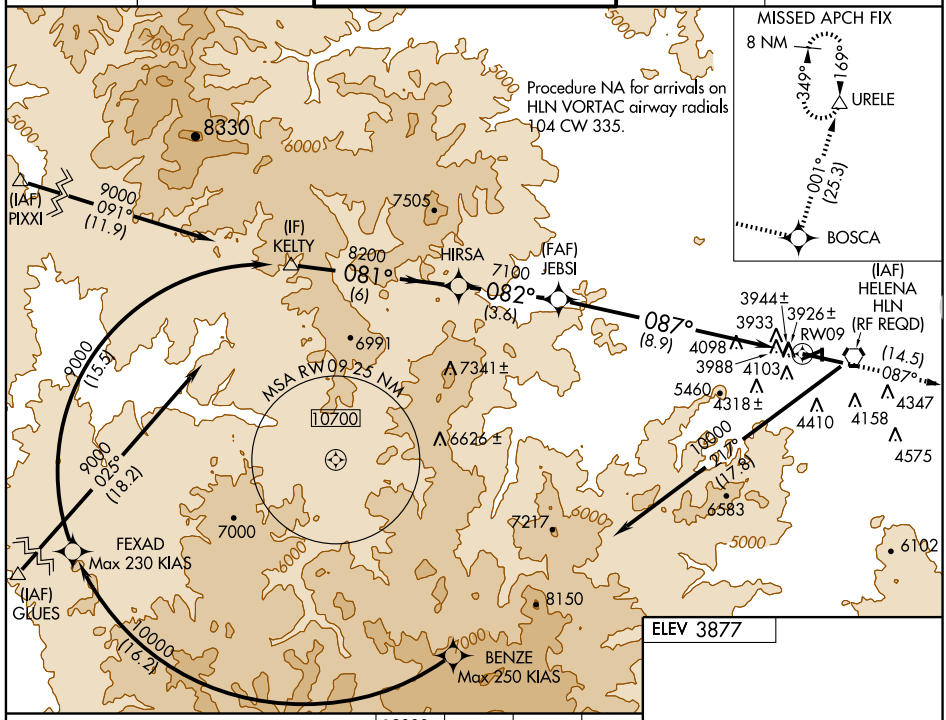
RNAV (RNP) Z RWY 9

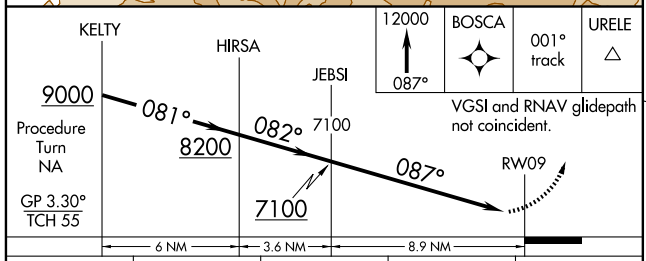
HELENA RGNL (HLN)

GPS required.
For uncompensated Baro-VNAV systems, procedure NA below -22°C (-7°F) or above 54°C (130°F).
When VGSI inoperative, procedure NA at night.
*Missed approach requires minimum climb of 260′ per NM to 4300.

MISSED APPROACH: Climb to 12000 via 087° track to BOSCA and via 001° track to URELE and hold, continue climb-in-hold to 12000.

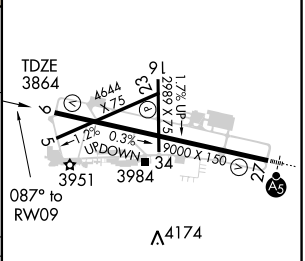
ATIS	HELENA APP CON *	HELENA TOWER *	GND CON	UNICOM
120.4	119.5 229.4	118.3 (CTAF) L 257.8	121.9	122.95





CATEGORY	A	B	C	D
RNP 0.11 DA*	4220-1	356 (400-1)		NA
RNP 0.17 DA	4258-1¼	394 (400-1¼)		NA
RNP 0.30 DA	4353-1½	489 (500-1½)		NA

SPECIAL AIRCRAFT & AIRCREW AUTHORIZATION REQUIRED



NW-1, 03 JUN 2010 to 01 JUL 2010

APP CRS	Rwy Idg	9000
267°	TDZE	3852
	Apt Elev	3877

RNAV (RNP) Z RWY 27

HELENA RGNL (HLN)

GPS required. For uncompensated Baro-VNAV systems, procedure NA below -22°C (-7°F) or above 41°C (105°F). *Missed approach requires minimum climb of 295 feet per NM to 7900. **Missed approach requires minimum climb of 290 feet per NM to 7300. ***Missed approach requires minimum climb of 405 feet per NM to 6300. For inoperative MALSR, increase RNP 0.18* visibility to 1, RNP 0.22** visibility to 1¼ , and RNP 0.30*** visibility to 1½. Inoperative table does not apply to RNP 0.30.

MALSR

MISSED APPROACH: Climb to 13000 via 267° track to JEBSI, and via 261° track to KELTY, and via 271° track to PIXXI and hold, continue climb-in-hold to 13000.

ATIS	HELENA APP CON ★	HELENA TOWER ★	GND CON	UNICOM
120.4	119.5 229.4	118.3 (CTAF) L 257.8	121.9	122.95

Procedure NA for arrivals on HIA VOR/DME airway radials 276 CW 185 and for arrivals on HLN VORTAC airway radials 009 CW 265 and for arrivals at SUZZY via V343 westbound.

(RF REQD) (RNP 0.50) (IAF) HELENA HLN

(IAF) URELE (RNP 0.50)

(IAF) LINGE (RNP 0.50)

(IAF) HEXOL (RNP 0.50)

(FAF) JEXUT

FALDE Max 240 KIAS via URELE

(IF) BOSCA

(IAF) SWEDD (RNP 0.50)

CEMLI

MISSED APCH FIX

PIXXI 086° 266° 8 NM

KELTY 271° (11.9)

JEBSI 261° (9.6)

DULCA Max 230 KIAS

FAVTA Max 230 KIAS

MSA RW 27 25 NM 10700

WHITEHALL HIA (RF REQD) (RNP 0.50)

(IAF) SUZZY (RF REQD) (RNP 0.50)

ELEV 3877

TDZE 3852

RW27

REIL Rwy 9 L

MIRL Rwys 5-23 and 16-34 L

HIRL Rwy 9-27 L

267° to RW27

13000	JEBSI	261° track	KELTY
267°			

JEXUT 6500 267° 7200 BOSCA

6500

Procedure Turn NA

GP 3.00° TCH 55

8 NM 5 NM

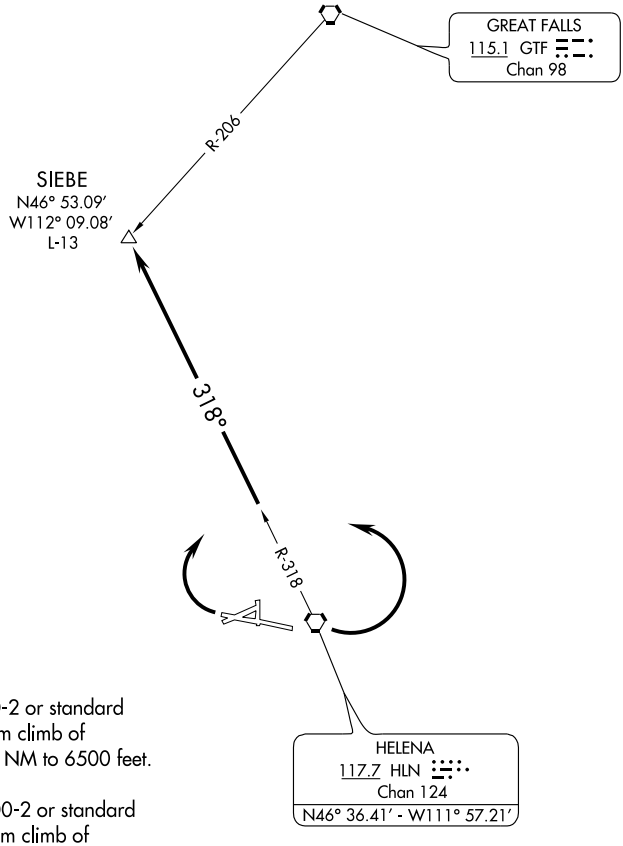
CATEGORY	A	B	C	D
RNP 0.18 DA*	4119-½ 267 (300-½)			
RNP 0.22 DA**	4212-¾ 360 (400-¾)			
RNP 0.30 DA***	4287-1 435 (500-1)			
RNP 0.30 DA	4863-4 1011 (1000-4)			

SPECIAL AIRCRAFT AND AIRCREW AUTHORIZATION REQUIRED

NW-1, 03 JUN 2010 to 01 JUL 2010

SIEBE TWO DEPARTURE

ATIS 120.4
GND CON
121.9
HELENA TOWER★
118.3 (CTAF) 257.8
HELENA DEP CON★
119.5 229.4



NOTE: Rwy 9, 1500-2 or standard with minimum climb of 360 feet per NM to 6500 feet.

NOTE: Rwy 27, 2400-2 or standard with minumum climb of 355 feet per NM to 7100 feet.

NOTE: Chart not to scale.

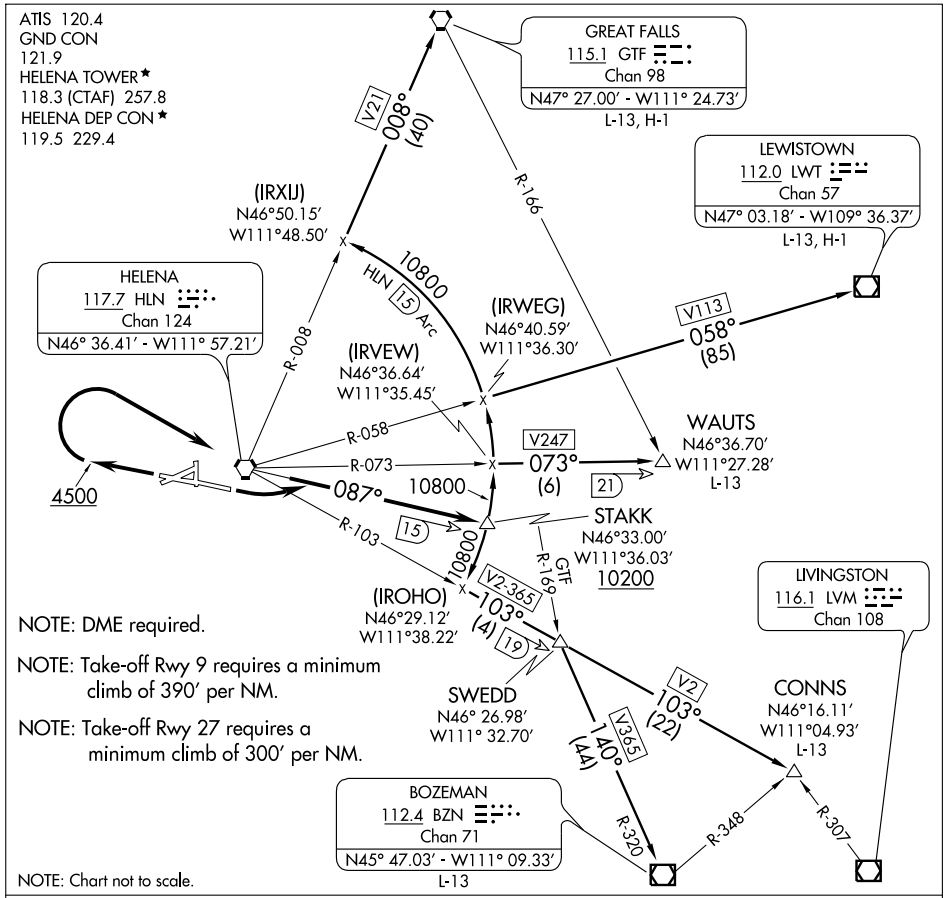
DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 9: Climbing left turn, thence. . . .

TAKE-OFF RUNWAY 27: Climbing right turn, thence. . . .

. . . .Intercept HLN R-318 to SIEBE INT.

STAKK TWO DEPARTURE



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 9: Climbing left turn to intercept HLN R-087 to cross STAKK INT at or above 10200'. Thence via transition.

TAKE-OFF RUNWAY 27: Climb on runway heading to 4500' then climbing right turn direct HLN VORTAC. Continue climb on HLN R-087 to cross STAKK INT at or above 10200'. Thence via transition.

BOZEMAN TRANSITION (STAKK2.BZN): From over STAKK INT via 15 DME Arc and V365 to BZN VOR/DME.

CONNS TRANSITION (STAKK2.CONNS): From over STAKK INT via 15 DME Arc and V2 to CONNS INT.

GREAT FALLS TRANSITION (STAKK2.GTF): From over STAKK INT via 15 DME Arc and V21 to GTF VORTAC.

LEWISTOWN TRANSITION (STAKK2.LWT): From over STAKK INT via 15 DME Arc and V113 to LWT VORTAC.

WAUTS TRANSITION (STAKK2.WAUTS): From over STAKK INT via 15 DME Arc and V247 to WAUTS INT.

NW-1, 03 JUN 2010 to 01 JUL 2010

VORTAC HLN	APP CRS	Rwy Idg	N/A
117.7	266°	TDZE	N/A
Chan 124		Apt Elev	3877

VOR-A
HELENA RGNL (HLN)

Circling NA for Cat D south of Rwy 9-27.

MISSED APPROACH: Climbing right turn to 9000 via HLN VORTAC R-336 to WOKEN INT and hold.

ATIS	HELENA APP CON ★	HELENA TOWER ★	GND CON	UNICOM
120.4	119.5 229.4	118.3 (CTAF) L 257.8	121.9	122.95

MISSED APCH FIX
WOKEN
GTF 37.7
115.1 GTF
Chan 98
026°
206°
R-206
R-336
117.7 HLN
Chan 124

ALTERNATE MISSED APCH FIX
086°
266°
R-086
HELENA
HLN
117.7
Chan 124

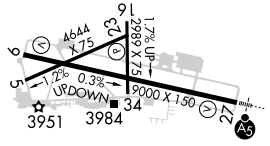
IAF
HELENA
117.7 HLN
Chan 124

R-336
266°
041°
221°
10 NM
R-086

6128 7505 7341± 6626± 4098 3988 4103 5460 4318± 4410 4158 4347 4575 5459± 5517 6583 6102 7217 8150 8512 8775

MSA HLN 25 NM
9200
9600
10200
10700
225°
315°
045°

ELEV 3877



4174

9000
HLN
R-336
WOKEN

Procedure Turn: Descend to 10000 in HLN VORTAC holding pattern prior to departing outbound for procedure turn.

VORTAC
086°
266°
8200
Remain within 10 NM

CATEGORY	A	B	C	D
CIRCLING	6700-1¼ 2823 (2900-1¼)	6700-1½ 2823 (2900-1½)	6700-3 2823 (2900-3)	

REIL Rwy 9 L
MIRL Rwys 5-23 and 16-34 L
HIRL Rwy 9-27 L

NW-1, 03 JUN 2010 to 01 JUL 2010

VORTAC HLN	APP CRS	Rwy Idg	N/A
117.7	266°	TDZE	N/A
Chan 124		Apt Elev	3877

VOR/DME-B
HELENA RGNL (HLN)

Circling NA for Cat D south of Rwy 9-27.
DME Arc to final approach course required for turbojet aircraft.
Holding at SEWAL authorized for Cat A and B aircraft only.

MISSED APPROACH: Climbing right turn to 9000 via HLN VORTAC R-336 to WOKEN INT/22.7 DME and hold.

ATIS	HELENA APP CON ★	HELENA TOWER ★	GND CON	UNICOM
120.4	119.5 229.4	118.3 (CTAF) L 257.8	121.9	122.95

MISSED APCH FIX
WOKEN
HLN 22.7
026°
208°
115.1 GTF
R-206
Chan 98
117.7 HLN
R-336
Chan 124

ALTERNATE MISSED APCH FIX
086°
266°
R-086
HELENA
HLN
117.7
Chan 124

(IAF) KOTLE HLN 15
10000
HLN 15 Arc
(IAF) TICUS HLN 15
7840
R-336
R-008
10 NM
HELENA
117.7 HLN
Chan 124
MSA HLN 25 NM
9200
9600
10200
10700
7720
(IAF) HONVI HLN 15
7385
R-058
(IAF) FAVOX HLN 15
R-073
8400 MoPT
HLN 15 Arc
LR-078
(IF) JOVIX HLN 15
R-086
JUBTI HLN 4
4098 3988
4318± 4103 4174 4348±
5460 4410 4158
4575
8300 to SEWAL
086° (8.4)
4979±
086°
1 min 175K
266°
266° (6.6)
5517
7300
(IAF) SEWAL HLN 8.4
6583
7217
6102
8400 MoPT
HLN 15 Arc
LR-094
R-103
R-208
R-175
R-124
(IAF) CUSRI HLN 15
10000
HLN 15 Arc
8512
(IAF) JEVAM HLN 15
8775
(IAF) LOCIS HLN 15
11100
HLN 15 Arc
HUDUB HLN 15

ELEV 3877
9
27
4644 X 75
1.7% UP
2989 X 75
0.3% UP
DOWN
9000 X 150
3951
3984
34
A5
4174

9000
HLN
R-336
WOKEN
SEWAL
HLN 8.4
One Minute Holding Pattern
JUBTI
HLN 4
086°
266°
7300
VORTAC
266°
5420
4 NM
4.4 NM

CATEGORY	A	B	C	D
CIRCLING	4760-1¼ 883 (900-1¼)		4760-2¾ 883 (900-2¾)	4760-3 883 (900-3)

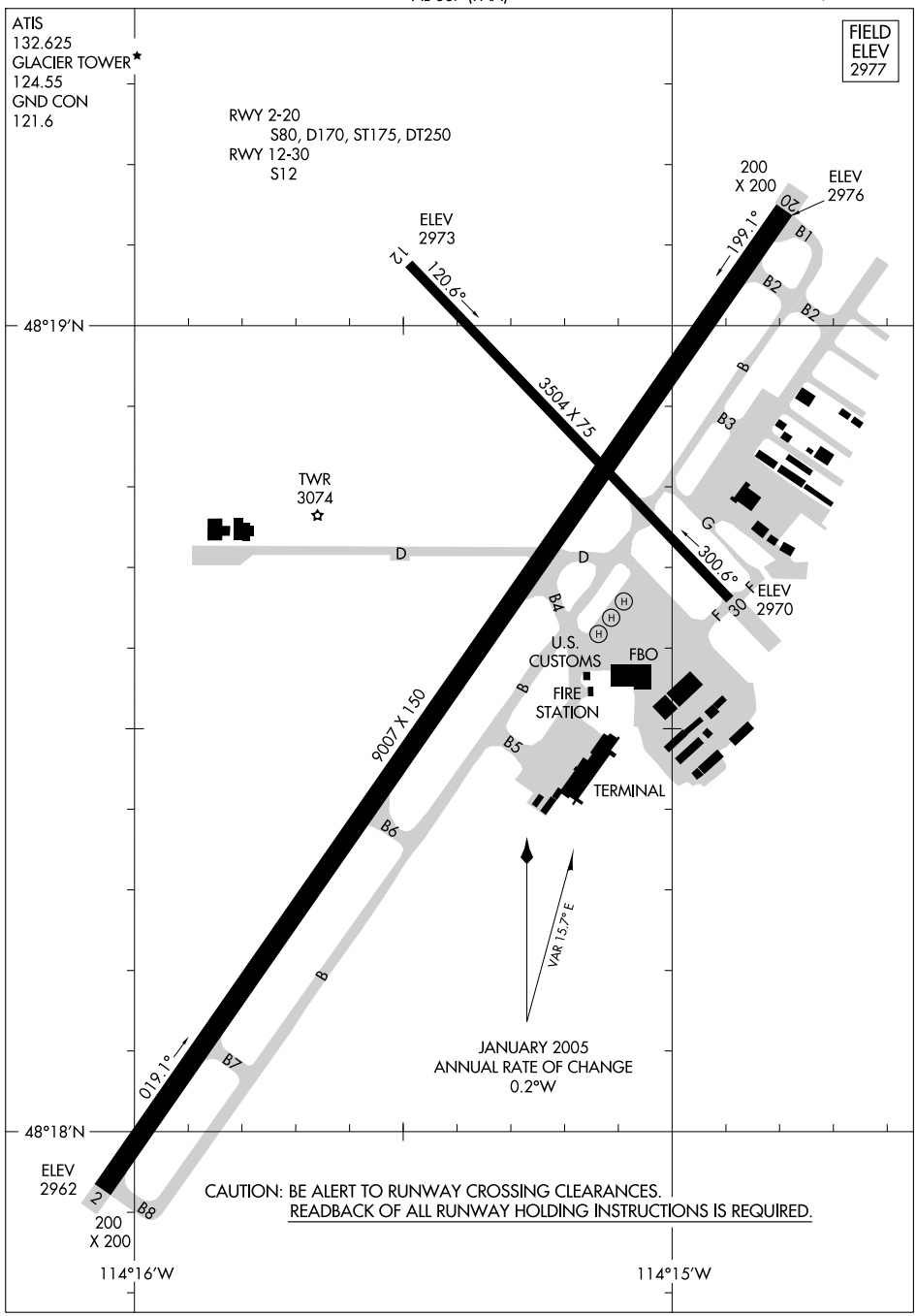
REIL Rwy 9 L
MIRL Rwys 5-23 and 16-34 L
HIRL Rwy 9-27 L

NW-1, 03 JUN 2010 to 01 JUL 2010

AIRPORT DIAGRAM

AL-887 (FAA)

KALISPELL/GLACIER PARK INTL (GPI)
KALISPELL, MONTANA



NW-1, 03 JUN 2010 to 01 JUL 2010

LOC I-GPI	APP CRS	Rwy Idg	9007
111.5	020°	TDZE	2966
		Apt Elev	2977

ILS or LOC RWY 2

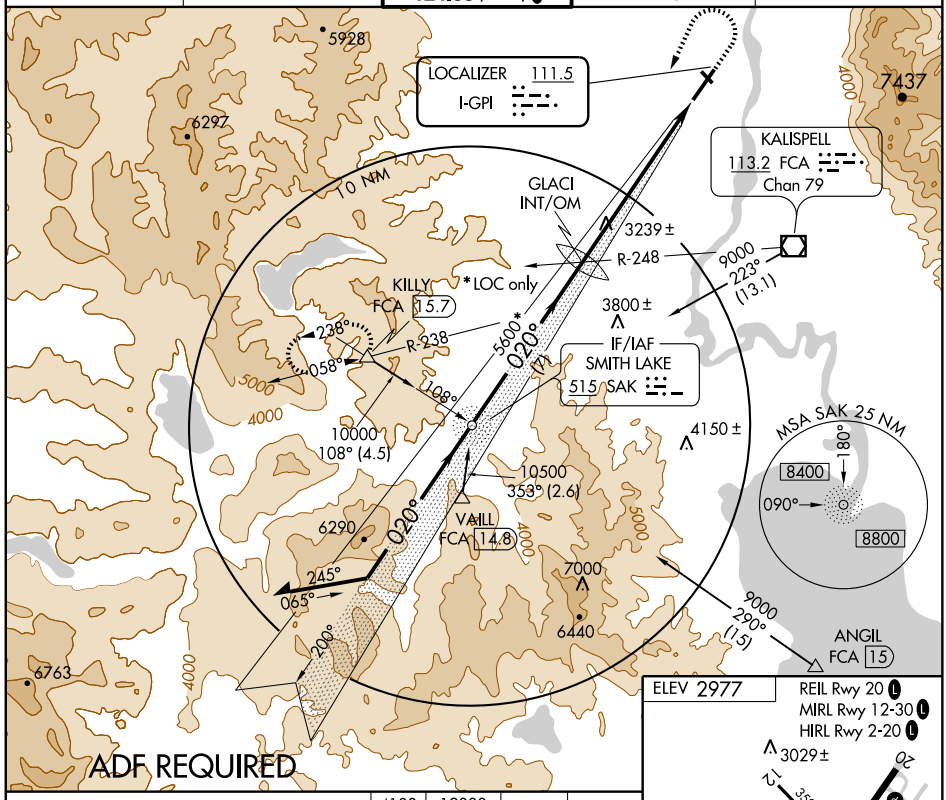
KALISPELL/ GLACIER PARK INTL (GPI)

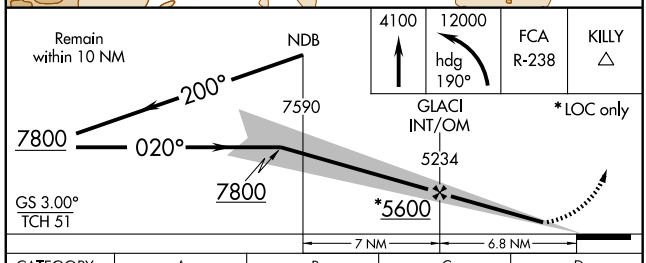
ADF required.

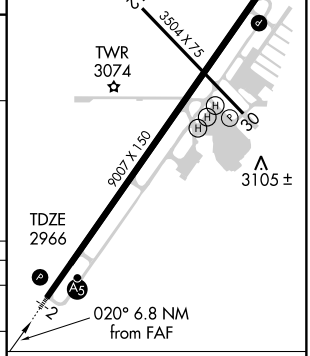
MALSR

MISSED APPROACH: Climb to 4100, then climbing left turn to 12000 via heading 190° and via FCA VOR/DME R-238 to KILLY INT/FCA 15.7 DME and hold, continue climb-in-hold to 12000.

ATIS	SALT LAKE CENTER	GLACIER TOWER*	GND CON	UNICOM
132.625	133.4 285.4	124.55 (CTAF) L	121.6	122.95







CATEGORY	A	B	C	D
S-ILS 2	3166-½ 200 (200-½)			
S-LOC 2	3540-½ 574 (600-½)		3540-1 574 (600-1)	3540-1¼ 574 (600-1¼)
CIRCLING	3540-1 563 (600-1)		3640-1¾ 663 (700-1¾)	3640-2 663 (700-2)

FAF to MAP 6.8 NM

Knots	60	90	120	150	180
Min:Sec	6:48	4:32	3:24	2:43	2:16

NW-1, 03 JUN 2010 to 01 JUL 2010

APP CRS	Rwy Idg	3504
301°	TDZE	2974
	Apt Elev	2977

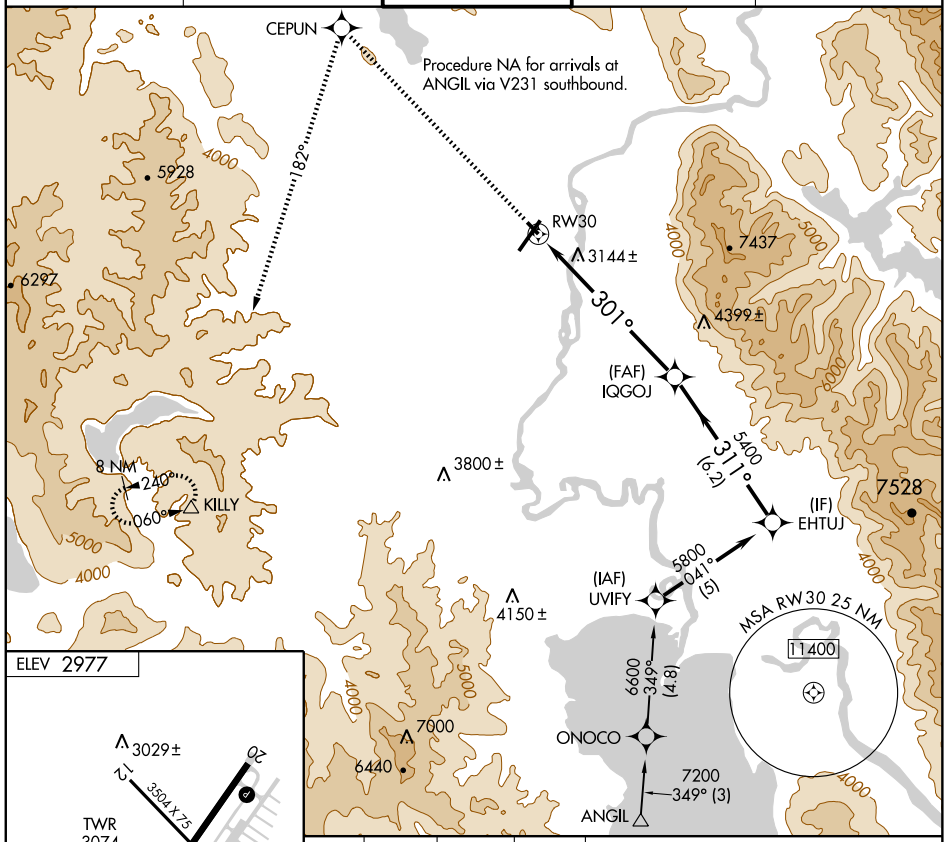
RNAV (GPS) RWY 30

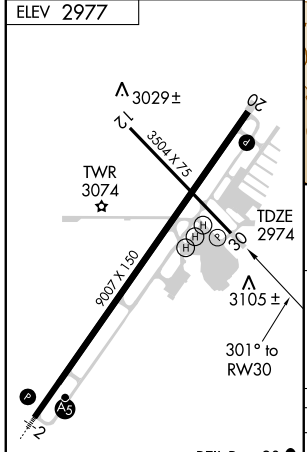
KALISPELL/ GLACIER PARK INTL (GPI)

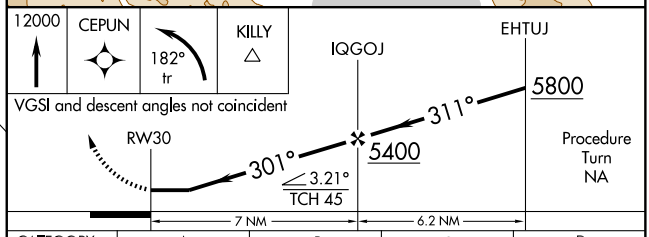
Straight-in minimums NA at night.
DME/DME RNP-0.3 NA.
Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 12000 direct CEPUN and left turn via track 182° to KILLY and hold, continue climb-in-hold to 12000.

ATIS	SALT LAKE CENTER	GLACIER TOWER★	GND CON	UNICOM
132.625	133.4 285.4	124.55 (CTAF) L	121.6	122.95







CATEGORY	A	B	C	D
LNAV MDA	3460-1	486 (500-1)	3460-1¼ 486 (500-1¼)	3460-1½ 486 (500-1½)
CIRCLING	3520-1	543 (600-1)	3640-1¾ 663 (700-1¾)	3640-2 663 (700-2)

REIL Rwy 20 L
MIRL Rwy 12-30 L
HIRL Rwy 2-20 L

NW-1, 03 JUN 2010 to 01 JUL 2010

WAAS CH 70799 W02A	APP CRS 020°	Rwy Idg 9007 TDZE 2966 Apt Elev 2977

RNAV (GPS) Z RWY 2

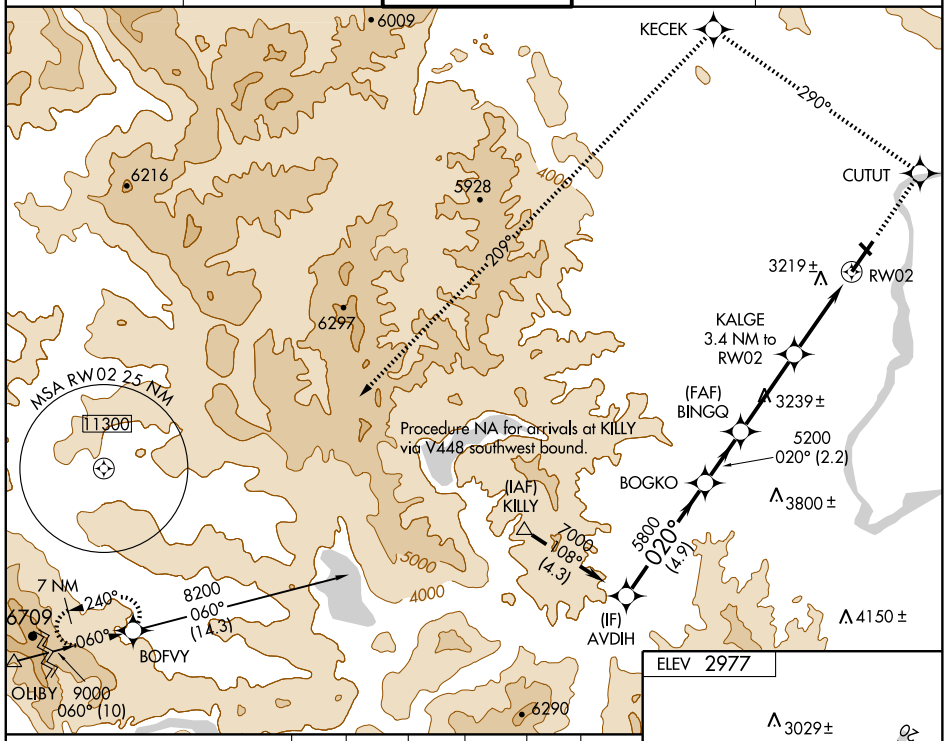
KALISPELL/ GLACIER PARK INTL (GPI)

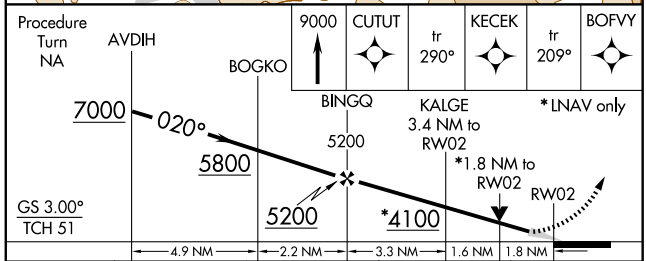
For inoperative MALSR, increase LPV visibility to 1¼ mile. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -20°C (-4°F) or above 43°C (109°F). DME/DME RNP-0.3 NA.

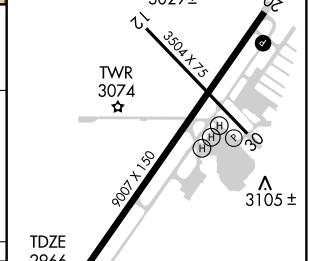
MALSR

MISSED APPROACH: Climb to 9000 direct CUTUT and via track 290° to KECEK and via track 209° to BOFVY and hold.

ATIS	SALT LAKE CENTER	GLACIER TOWER*	GND CON	UNICOM
132.625	133.4 285.4	124.55 (CTAF) L	121.6	122.95







CATEGORY	A	B	C	D
LPV DA	3297-¾ 331 (400-¾)			
LNAV/VNAV DA	3502-1½ 536 (600-1½)			
LNAV MDA	3600-½ 634 (700-½)		3600-1¼ 634 (700-1¼)	3600-1½ 634 (700-1½)
CIRCLING	3600-1 623 (700-1)		3640-1¾ 663 (700-1¾)	3640-2 663 (700-2)

NW-1, 03 JUN 2010 to 01 JUL 2010

KALISPELL, MONTANA

AL-887 (FAA)

APP CRS	Rwy Idg	9007
200°	TDZE	2977
	Apt Elev	2977

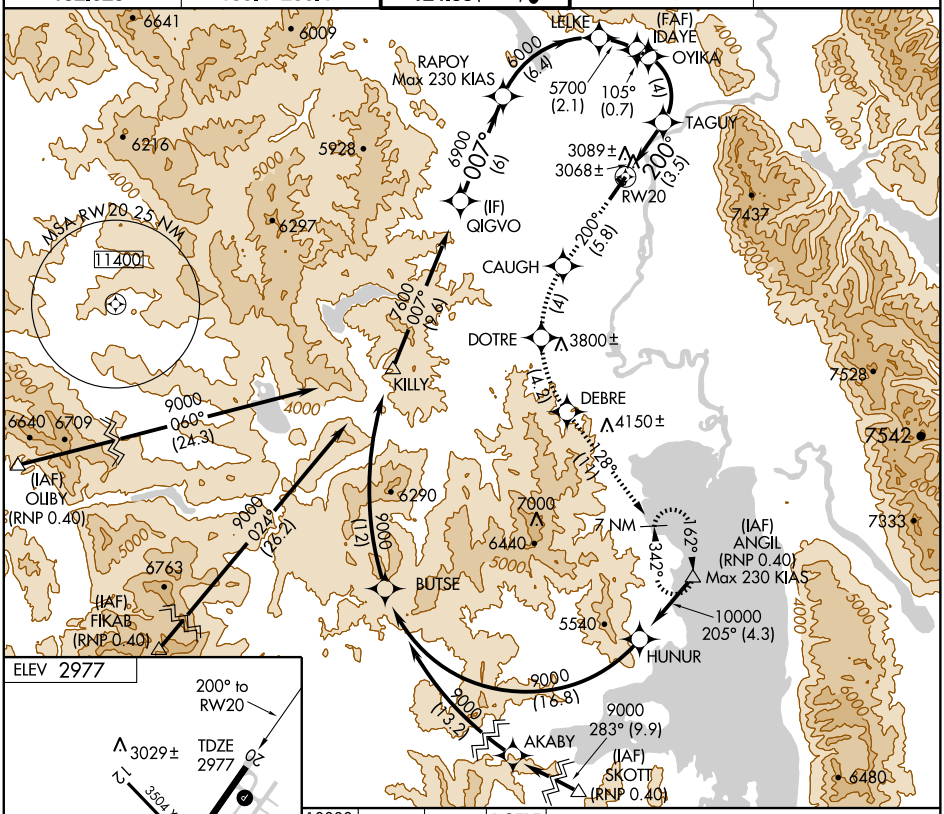
RNAV (RNP) RWY 20

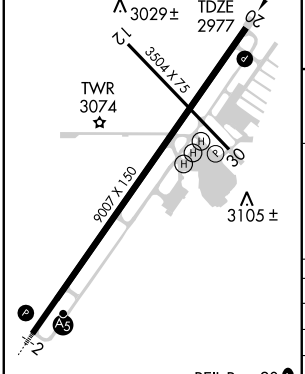
KALISPELL/ GLACIER PARK INTL (GPI)

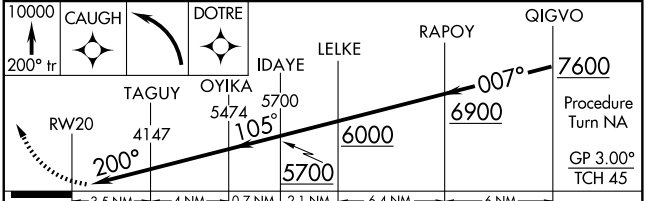
RF and GPS required. For uncompensated Baro-VNAV systems, procedure NA below -21°C (-5°F) or above 43°C (109°F).
*Missed approach requires minimum climb of 235 feet per NM to 6900. Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 10000 via 200° track to CAUGH and via left turn to DOTRE, and via left turn to DEBRE, and via 128° track to ANGIL and hold, continue climb-in-hold to 10000.

ATIS	SALT LAKE CENTER	GLACIER TOWER*	GND CON	UNICOM
132.625	133.4 285.4	124.55 (CTAF) L	121.6	122.95







CATEGORY	A	B	C	D
RNP 0.10 DA*	3344-1¼ 367 (400-1¼)			
RNP 0.30 DA*	3446-1¾ 469 (500-1¾)			
RNP 0.30 DA	3662-2½ 685 (700-2½)			

SPECIAL AIRCRAFT AND AIRCREW AUTHORIZATION REQUIRED

NW-1, 03 JUN 2010 to 01 JUL 2010

KALISPELL, MONTANA AL-887 (FAA)

APP CRS	Rwy Idg	9007
020°	TDZE	2966
	Apt Elev	2977

RNAV (RNP) Y RWY 2

KALISPELL/ GLACIER PARK INTL (GPI)

RF and GPS required.
*Missed approach requires minimum climb of 220 feet per NM to 6100.
Missed approach requires RNP less than 1.0.
For uncompensated Baro-VNAV systems, procedure NA below -21°C (-5°F) or above 43°C (109°F). For inoperative MALSR increase RNP 0.10* visibility to 1¼ and RNP 0.30 visibility to 2.

MALSR

MISSED APPROACH: Climb to 10000 via left turn to JOGAD, and via left turn to ROYOG and via left turn to TONUY, and via 121° track to WILTO and via 129° track to ANGIL and hold.

ATIS	SALT LAKE CENTER	GLACIER TOWER *	GND CON	UNICOM
132.625	133.4 285.4	124.55 (CTAF) L	121.6	122.95

MSA RW02 25 NM
11300
ROYOG (8.4)
JOGAD (4.6)
TONUY
(FAF) BINGQ
020° (6.7)
3199± RW02 3059±
7437
6297
6216
5928
6550
6641
6009
3800±
WILTO
4150±
6290 020° (3.2)
AVDIH
7200 015° (3)
WULEX
6290
(IAF) OLIBY (RNP 0.30)
6640
6709
9000 094° (15.3)
NOBTE Max 250 KIAS
8000 (3.5)
(IF) JUNRU
7000
6440
162°
342°
(IAF) ANGIL (RNP 0.30) Max 230 KIAS
8000 (7.4)
PETIY
6763
5540
ZURLU
9000 189° (4)
9000 040° (17.7)
8000 (12.5)
(IAF) FIKAB (RNP 0.30)
TIYUT
8000 (13.2)
(IAF) SKOTT (RNP 0.30)
8000 285° (15.5)

ELEV 2977
3029±
3504 X 75
TWR 3074
9007 X 150
3105±
TDZE 2966
020° to RW02
REIL Rwy 20 L
MIRL Rwy 12-30 L
HIRL Rwy 2-20 L

JUNRU 8000 — 015° 7200 — WULEX — 020° 6200 — AVDIH — 5200 — BINGQ — 5200 — RW02
10000 JOGAD ROYOG
Procedure Turn NA
GP 3.00° TCH 51
3 NM | 3.2 NM | 7.1 NM | 6.7 NM

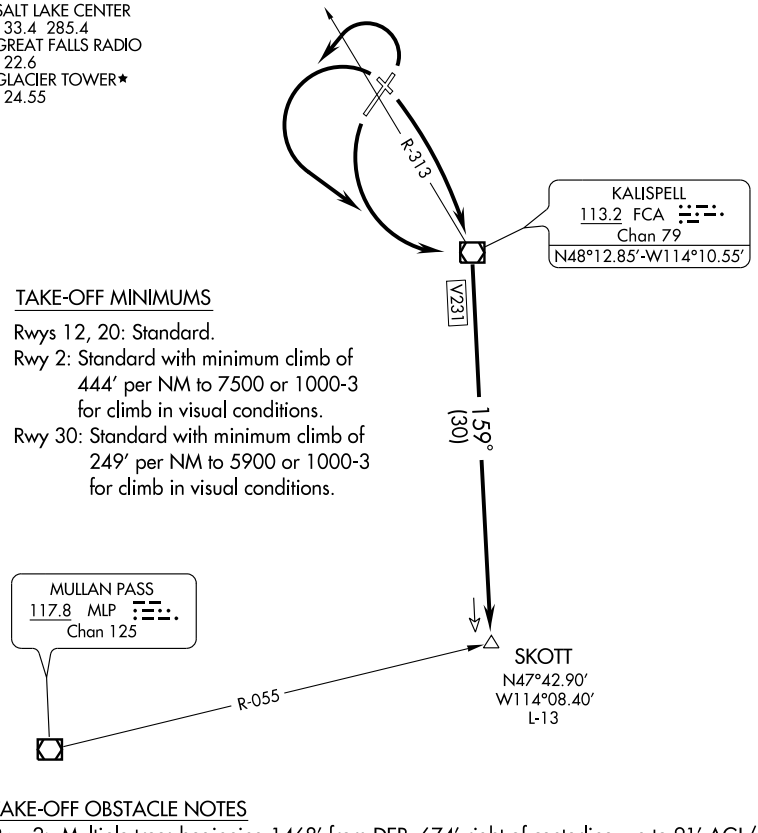
CATEGORY	A	B	C	D
RNP 0.10 DA*	NA	3340-¾ 374 (400-¾)		
RNP 0.30 DA	NA	3522-1½ 556 (600-1½)		

SPECIAL AIRCRAFT AND AIRCREW AUTHORIZATION REQUIRED

NW-1. 03 JUN 2010 to 01 JUL 2010

SKOTT ONE DEPARTURE (OBSTACLE)

SALT LAKE CENTER
133.4 285.4
GREAT FALLS RADIO
122.6
GLACIER TOWER★
124.55



TAKE-OFF MINIMUMS

Rwys 12, 20: Standard.
Rwy 2: Standard with minimum climb of 444' per NM to 7500 or 1000-3 for climb in visual conditions.
Rwy 30: Standard with minimum climb of 249' per NM to 5900 or 1000-3 for climb in visual conditions.

TAKE-OFF OBSTACLE NOTES

Rwy 2: Multiple trees beginning 1468' from DER, 674' right of centerline, up to 91' AGL/3061' MSL.
Rwy 12: Multiple trees beginning 1426' from DER, 543' left of centerline, up to 129' AGL/3082' MSL.
Railroad 702' from DER, 317' left of centerline, 31' AGL/2997' MSL.
Road 544' from DER, 299' left of centerline, 22' AGL/2988' MSL.
Rwy 20: Multiple trees beginning 2742' from DER, 1140' left of centerline, up to 107' AGL/3169' MSL.
Rwy 30: Multiple trees beginning 1848' from DER, 722' left of centerline, up to 104' AGL/3067' MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 2: Climbing left turn direct FCA VOR/DME, thence.... or, climb in visual conditions to cross Glacier Park Intl Airport southeast bound at or above 3800, then via FCA R-313 to FCA VOR/DME, thence....

TAKE-OFF RUNWAY 30: Climbing left turn direct FCA VOR/DME, thence.... or, climb in visual conditions to cross Glacier Park Intl Airport southeast bound at or above 3800, then via FCA R-313 to FCA VOR/DME, thence....

TAKE-OFF RUNWAY 12: Climbing right turn direct FCA VOR/DME, thence....

TAKE-OFF RUNWAY 20: Climbing left turn direct FCA VOR/DME, thence....

....continue climb to 10,000 via FCA R-159 to SKOTT INT.

NW-1, 03 JUN 2010 to 01 JUL 2010

VOR/DME FCA	APP CRS	Rwy Idg	3504
113.2	316°	TDZE	2974
Chan 79		Apt Elev	2977

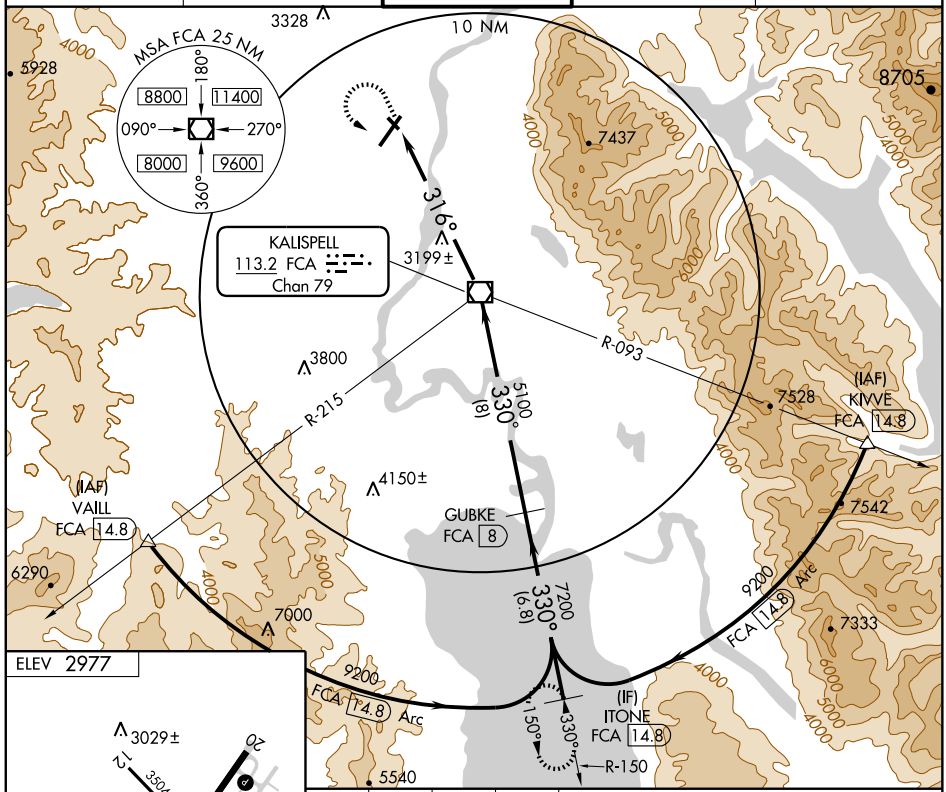
VOR/DME RWY 30

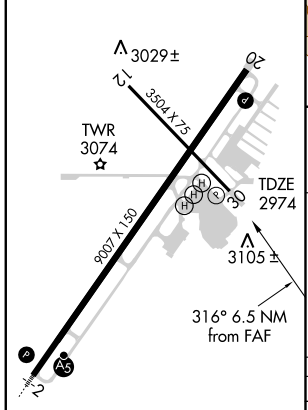
KALISPELL/ GLACIER PARK INTL (GPI)

Visibility reduction by helicopters not authorized. When VGSI inoperative, straight-in minimums not authorized at night.

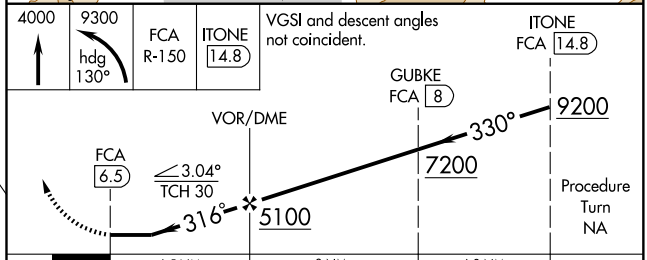
MISSED APPROACH: Climb to 4000 then climbing left turn to 9300 via heading 130° and FCA R-150 to ITONE/14.8 DME and hold, continue climb-in-hold to 9300.

ATIS	SALT LAKE CENTER	GLACIER TOWER★	GND CON	UNICOM
132.625	133.4 285.4	124.55 (CTAF) L	121.6	122.95





REIL Rwy 20 L
MIRL Rwy 12-30 L
HIRL Rwy 2-20 L



CATEGORY	A	B	C	D
S-30	3480-1	506 (600-1)	3480-1½	506 (600-1½)
CIRCLING	3520-1	543 (600-1)	3640-1¾ 663 (700-1¾)	3640-2 663 (700-2)

NW-1, 03 JUN 2010 to 01 JUL 2010

APP CRS	Rwy Idg	5200
036°	TDZE	3488
	Apt Elev	3517

RNAV (GPS) RWY 4

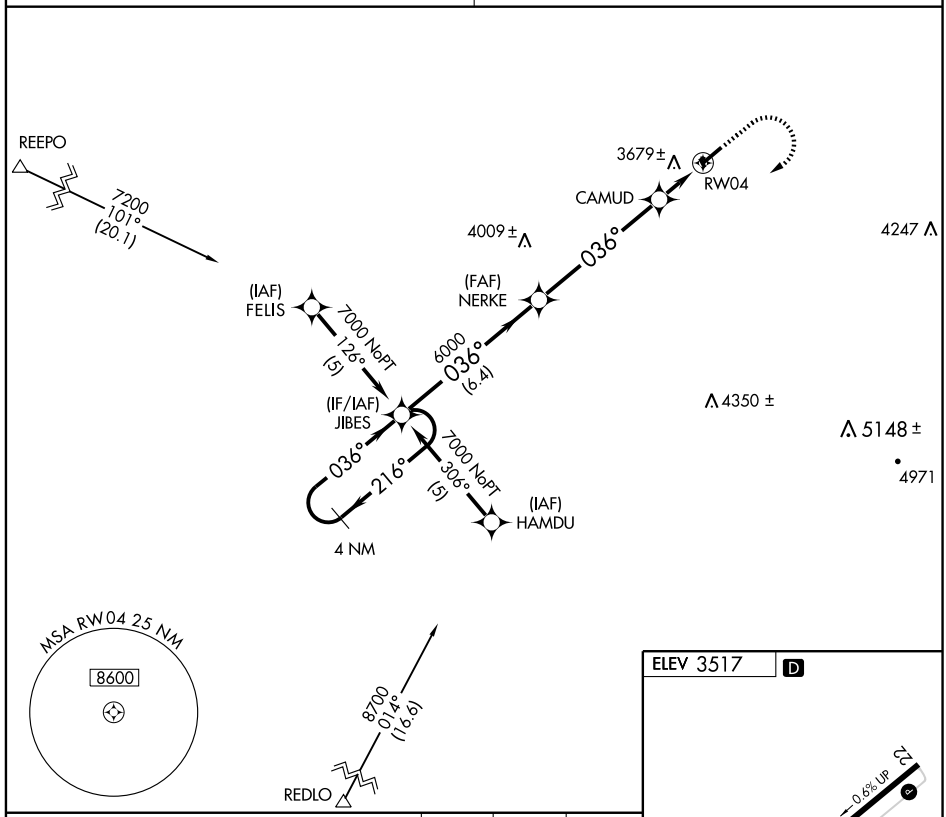
LAUREL MUNI (6S8)

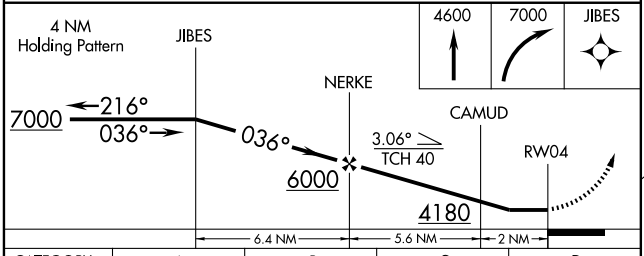
GPS or RNP-0.3 required. DME/DME RNP-0.3 NA. Use Billings altimeter setting.

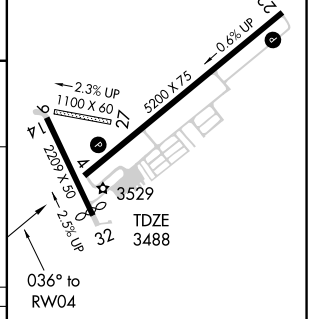
MISSED APPROACH: Climb to 4600 then climbing right turn to 7000 direct JIBES WP and hold.

BILLINGS APP CON
119.2 120.5 284.6

UNICOM
123.05 (CTAF) L







CATEGORY	A	B	C	D
LNAV	4120-1	632 (700-1)	4120-1¾ 632 (700-1¾)	4120-2 632 (700-2)
CIRCLING	4220-1	703 (800-1)	4220-2 703 (800-2)	4340-2¾ 823 (900-2¾)

MIRL Rwy 4-22 L

NW-1, 03 JUN 2010 to 01 JUL 2010

APP CRS	Rwy Idg	5200
216°	TDZE	3472
	Apt Elev	3517

RNAV (GPS) RWY 22

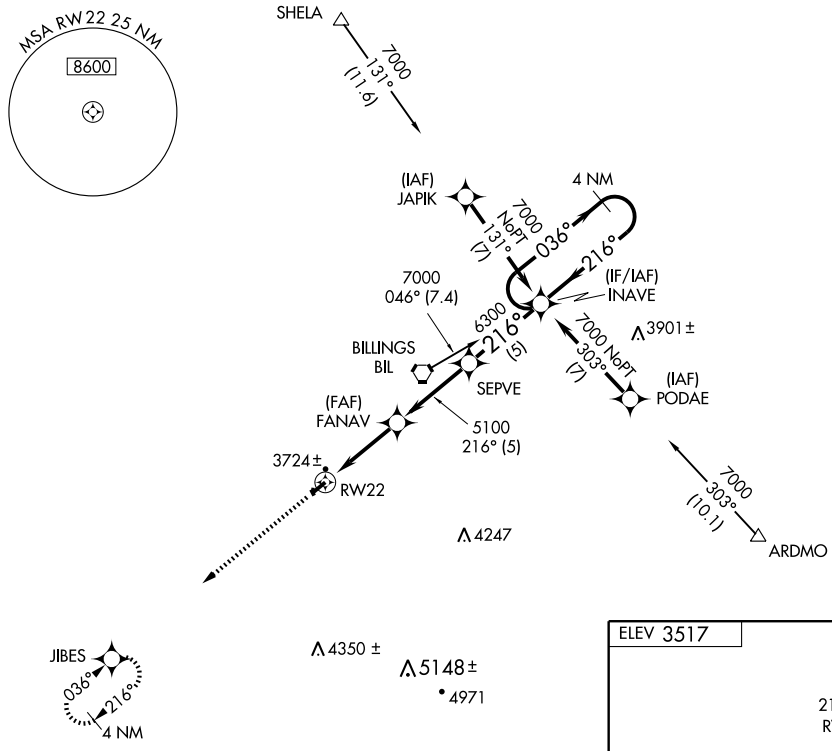
LAUREL MUNI (6S8)

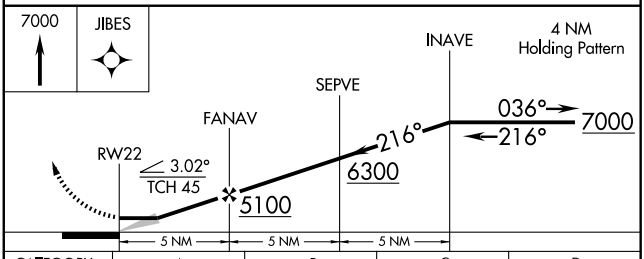
GPS or RNP-0.3 required. DME/DME RNP-0.3 NA. Use Billings altimeter setting.

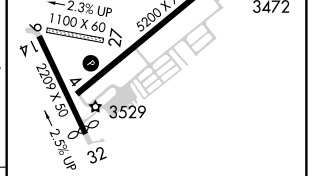
MISSED APPROACH: Climb to 7000 direct JIBES WP and hold.

BILLINGS APP CON
119.2 120.5 284.6

UNICOM
123.05 (CTAF) L







CATEGORY	A	B	C	D
LNAV MDA	4100-1	628 (600-1)	4100-1¾ 628 (600-1¾)	4100-2 628 (600-2)
CIRCLING	4220-1	703 (800-1)	4220-2 703 (800-2)	4340-2¾ 823 (900-2¾)

MIRL Rwy 4-22 L

NW-1, 03 JUN 2010 to 01 JUL 2010

VORTAC BIL 114.5 Chan 92	APP CRS 208°	Rwy Idg 5200 TDZE 3472 Apt Elev 3517

VOR RWY 22
LAUREL MUNI (6S8)

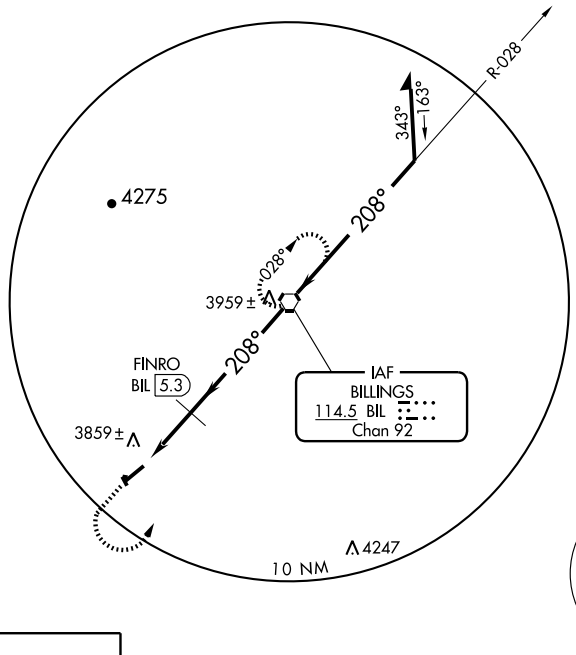
NA

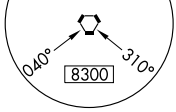
Use Billings altimeter setting.

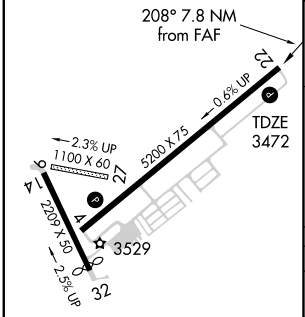
MISSED APPROACH: Climb to 4700 then climbing left turn to 6300 direct BIL VORTAC and hold.

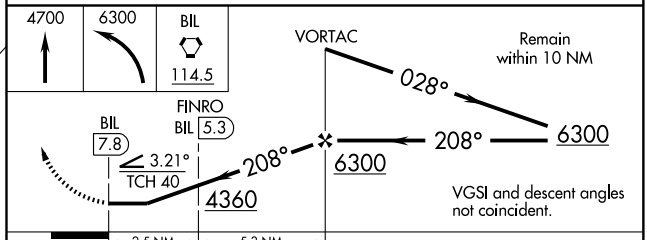
BILLINGS APP CON
119.2 120.5 284.6

UNICOM
123.05 (CTAF) L









CATEGORY	A	B	C	D
S-22	4360-1¼	888 (900-1¼)	4360-2¾ 888 (900-2¾)	4360-3 888 (900-3)
CIRCLING	4360-1¼	843 (900-1¼)	4360-2¾ 843 (900-2¾)	4360-3 843 (900-3)
FINRO FIX MINIMUMS				
S-22	4160-1	688 (700-1)	4160-2 688 (700-2)	4160-2¼ 688 (700-2¼)
CIRCLING	4220-1	703 (800-1)	4220-2 703 (800-2)	4340-2¾ 823 (900-2¾)

MIRL Rwy 4-22 L

FAF to MAP 7.8 NM

Knots	60	90	120	150	180
Min:Sec	7:48	5:12	3:54	3:07	2:36

NW-1, 03 JUN 2010 to 01 JUL 2010

WAAS	APP CRS	Rwy Idg	6100
CH 86700	075°	TDZE	4129
W07A		Apt Elev	4170

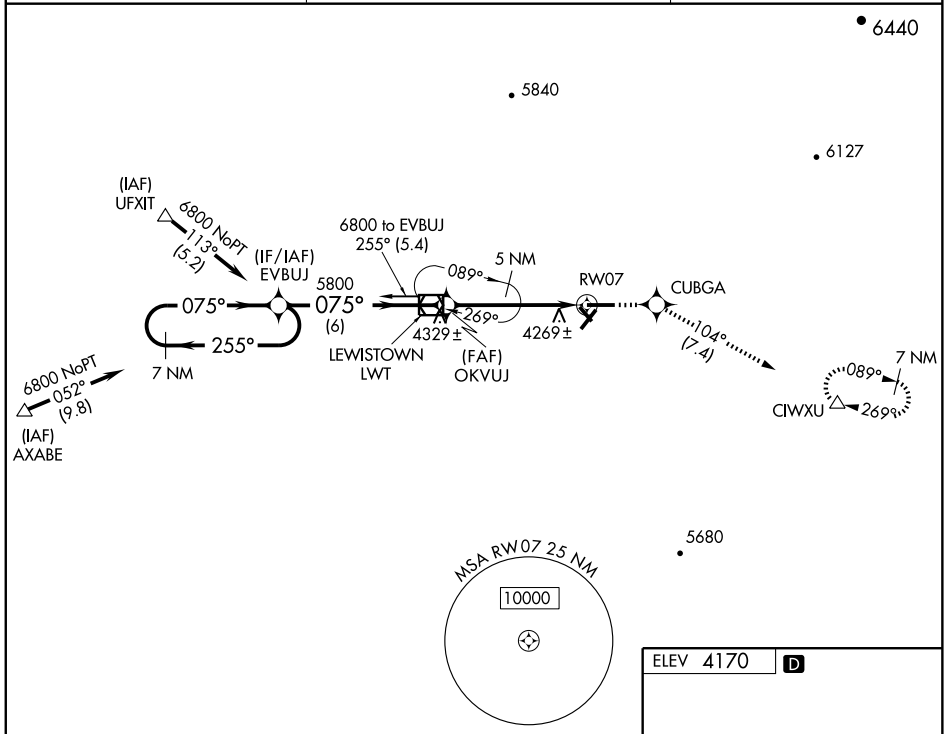
RNAV (GPS) RWY 7

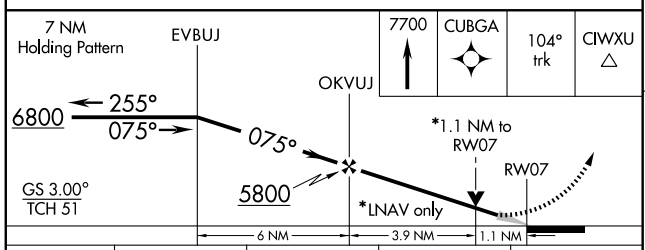
LEWISTOWN MUNI (LWT)

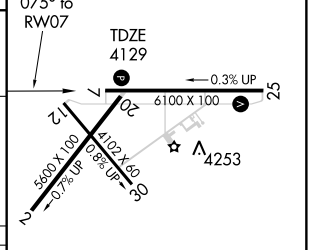
DME/DME RNP -0.3 NA.
If local altimeter setting not received, procedure NA.
Baro-VNAV NA below -23°C (-9°F)

MISSED APPROACH: Climb to 7700 direct CUBGA and via 104° track to CIWXU and hold, continue climb-in-hold to 7700.

ASOS	GREAT FALLS RADIO	UNICOM
118.375	122.2	123.0 (CTAF) L







CATEGORY	A	B	C	D
LPV DA	4379-¾ 250 (300-¾)			
LNAV/VNAV DA	4636-1¾ 507 (500-1¾)			
LNAV MDA	4520-1 391 (400-1)			4520-1¼ 391 (400-1¼)
CIRCLING	4680-1¾ 510 (600-1¾)		4780-1¾ 610 (700-1¾)	4860-2¼ 690 (700-2¼)

REIL Rwys 7 and 25 L
MIRL Rwys 2-20, 7-25 and 12-30 L

NW-1, 03 JUN 2010 to 01 JUL 2010

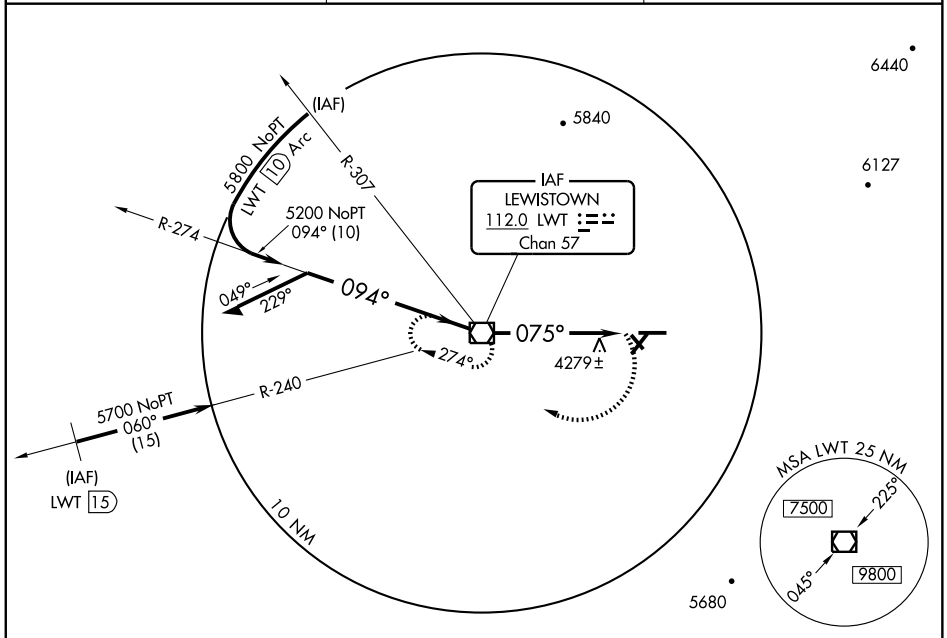
VOR/DME LWT	APP CRS	Rwy Idg	6100
112.0	075°	TDZE	4126
Chan 57		Apt Elev	4167

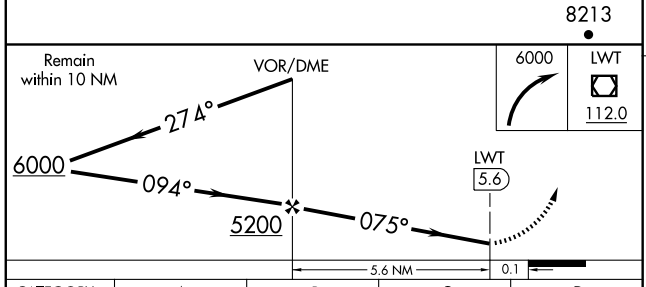
VOR RWY 7
LEWISTOWN MUNI (LWT)

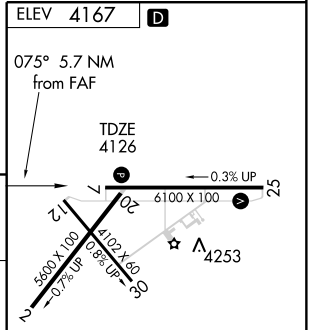
If local altimeter setting not received, procedure not authorized.

MISSED APPROACH: Climbing right turn to 6000 direct LWT VOR/DME and hold.

ASOS	GREAT FALLS RADIO	UNICOM
118.375	122.2	123.0 (CTAF) L







REIL Rwys 7 and 25 L
MIRL Rwys 2-20, 7-25 and 12-30 L

CATEGORY	A	B	C	D
S-7	4600-1	474 (500-1)	4600-1¼ 474 (500-1¼)	4600-1½ 474 (500-1½)
CIRCLING	4660-1	493 (500-1)	4660-1½ 493 (500-1½)	4880-2¼ 713 (800-2¼)

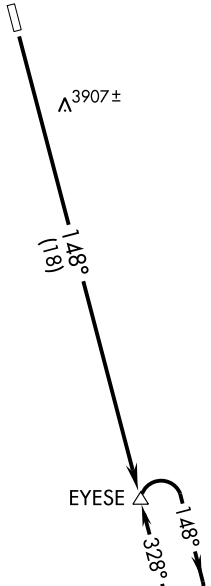
FAF to MAP 5.6 NM

Knots	60	90	120	150	180
Min:Sec	5:36	3:44	2:48	2:14	1:52

NW-1, 03 JUN 2010 to 01 JUL 2010

EYESE ONE DEPARTURE (RNAV) (OBSTACLE)

SEATTLE CENTER
123.95 282.3
AWOS-A
118.575



NOTE: 1. GPS required.
2. RNAV 1

TAKE-OFF MINIMUMS: 1400-2 or standard with a minimum climb of 380′ per NM to 9600′.
3907′ terrain 23697′ from runway threshold, 2491′ left of centerline.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 15: Climb via 148° course to 9600′ to EYESE, then continue climb to 12000′ within the EYESE holding pattern.

NW-1, 03 JUN 2010 to 01 JUL 2010

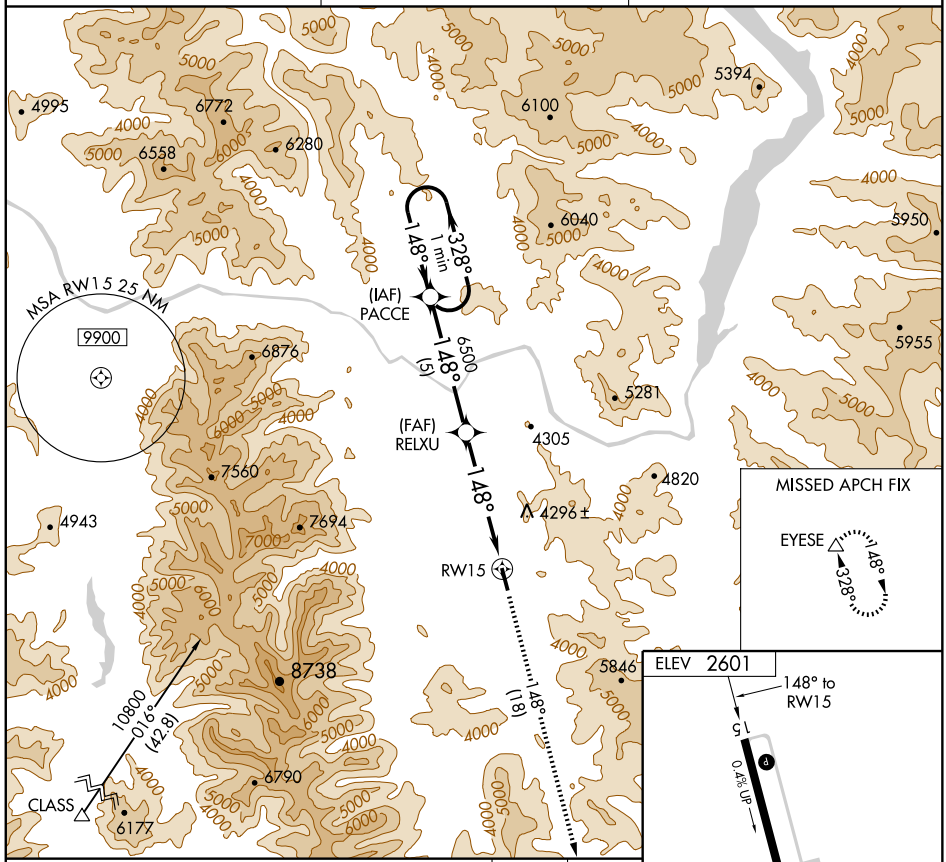
APP CRS	Rwy Idg	N/A
148°	TDZE	N/A
	Apt Elev	2601

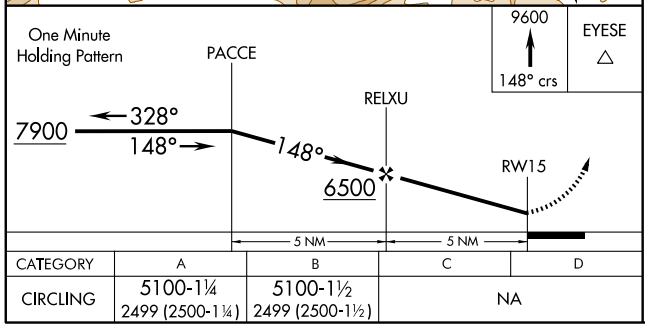
GPS-A
LIBBY (S59)

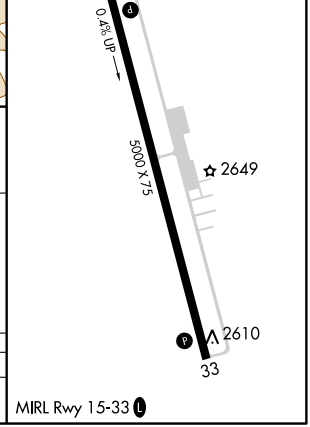
T
NA — Obtain local altimeter setting on CTAF; when not received procedure NA. Circling NA east of Rwys 15-33 at night.

MISSED APPROACH: Climb to 9600 via 148° course to EYESE WP and hold.

AWOS-A	SEATTLE CENTER	UNICOM
118.575	123.95 282.3	122.8 (CTAF) L







CATEGORY	A	B	C	D
CIRCLING	5100-1¼ 2499 (2500-1¼)	5100-1½ 2499 (2500-1½)	NA	

MIRL Rwy 15-33 L

NW-1, 03 JUN 2010 to 01 JUL 2010

APP CRS	Rwy Idg	5701
234°	TDZE	4649
	Apt Elev	4660

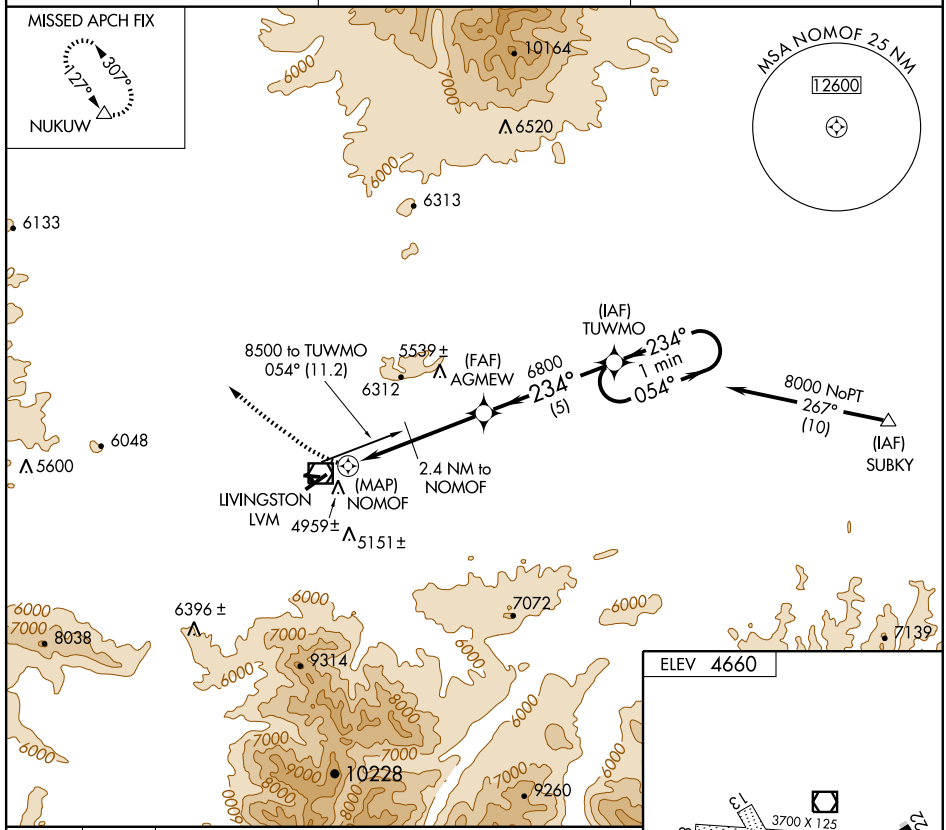
GPS RWY 22

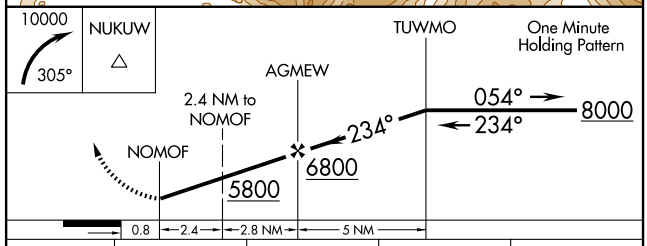
LIVINGSTON/MISSION FIELD (LVM)

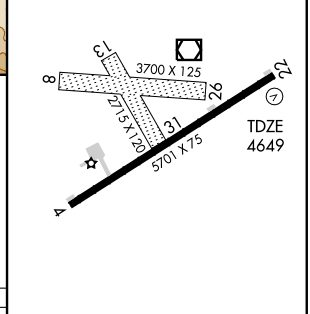
NA

MISSED APPROACH: Climbing right turn to 10000 via 305° course to NUKUW WP and hold.

ASOS	GREAT FALLS RADIO	UNICOM
135.275	122.2	123.0 (CTAF) L







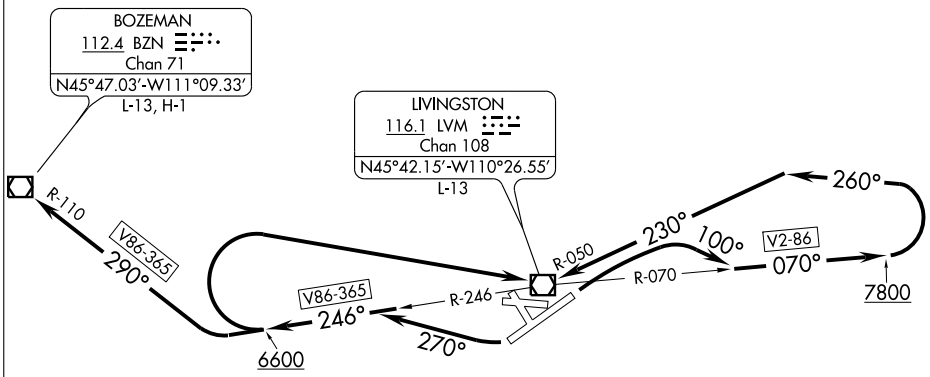
CATEGORY	A	B	C	D
S-22	5080-1	431 (500-1)	5080-1¼ 431 (500-1¼)	5080-1½ 431 (500-1½)
CIRCLING	5360-1 700 (700-1)	5380-1 720 (800-1)	5380-2 720 (800-2)	5580-3 920 (1000-3)

REIL Rwy 22
MIRL Rwy 4-22 L

NW-1, 03 JUN 2010 to 01 JUL 2010

LIVINGSTON ONE DEPARTURE (OBSTACLE)

GREAT FALLS RADIO
122.2
ASOS 135.275



TAKE-OFF MINIMUMS

Rwys 8, 13, 26, 31: NA-Environmental.
Rwy 4: Standard.
Rwy 22: Standard with minimum climb of 300' per NM to 6800 or 2700-3 for climb in visual conditions.

TAKE-OFF OBSTACLE NOTE

Rwy 22: Multiple trees beginning 400' from DER, 256' right of centerline, up to 100' AGL/4719' MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 4: Climbing right turn heading 100° and LVM VOR/DME R-070 outbound; aircraft departing eastbound, climb via LVM R-070/V2-86 enroute. All others continue climb on LVM R-070 to 7800, then climbing left turn via heading 260° and LVM R-050 to cross LVM VOR/DME at or above 9000, then climb enroute.

TAKE-OFF RUNWAY 22: Climbing right turn heading 270° and LVM VOR/DME R-246 outbound; aircraft departing eastbound, continue climb via LVM R-246 outbound to 6600, then climbing right turn direct LVM VOR/DME, then climb on LVM R-070/V2-86 enroute. All other aircraft continue climb via LVM VOR/DME R-246 and BZN VOR/DME R-110 to BZN. For climb in visual conditions, cross LVM VOR/DME at or above 9000 before proceeding via filed airway route.

NW-1, 03 JUN 2010 to 01 JUL 2010

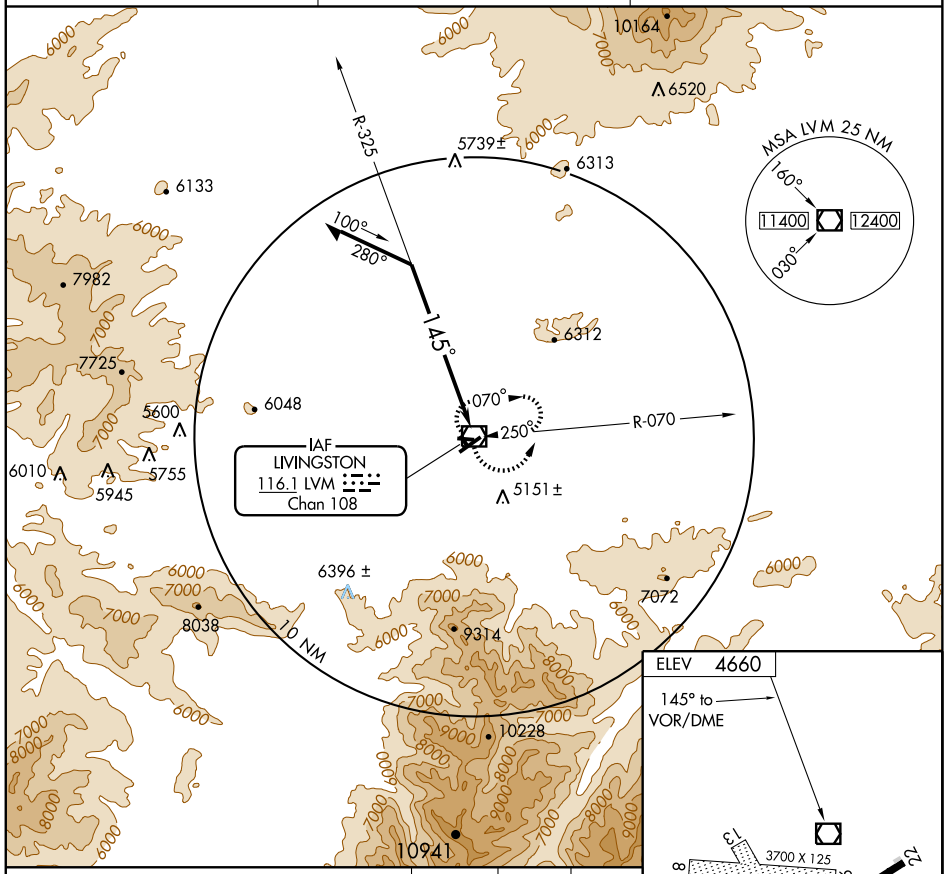
VOR/DME LVM 116.1 Chan 108	APP CRS 145°	Rwy Idg N/A TDZE N/A Apt Elev 4660

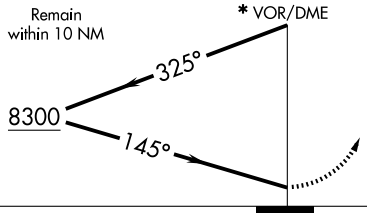
VOR-A

LIVINGSTON/ MISSION FIELD (LVM)

MISSED APPROACH: Climbing left turn to 7700 via LVM R-070, then climbing left turn to 9500 direct LVM VOR/DME and hold.

ASOS	GREAT FALLS RADIO	UNICOM
135.275	122.2	123.0 (CTAF) L





7700	9500	LVM
LVM R-070		116.1

*Maintain 10600 or above until established outbound for procedure turn.

CATEGORY	A	B	C	D
CIRCLING	6800-1¼ 2140 (2200-1¼)	6800-1½ 2140 (2200-1½)	6800-3 2140 (2200-3)	

REIL Rwy 22
MIRL Rwy 4-22 L

NW-1, 03 JUN 2010 to 01 JUL 2010

VOR/DME LVM 116.1 Chan 108	APP CRS 145°	Rwy Idg N/A TDZE N/A Apt Elev 4660

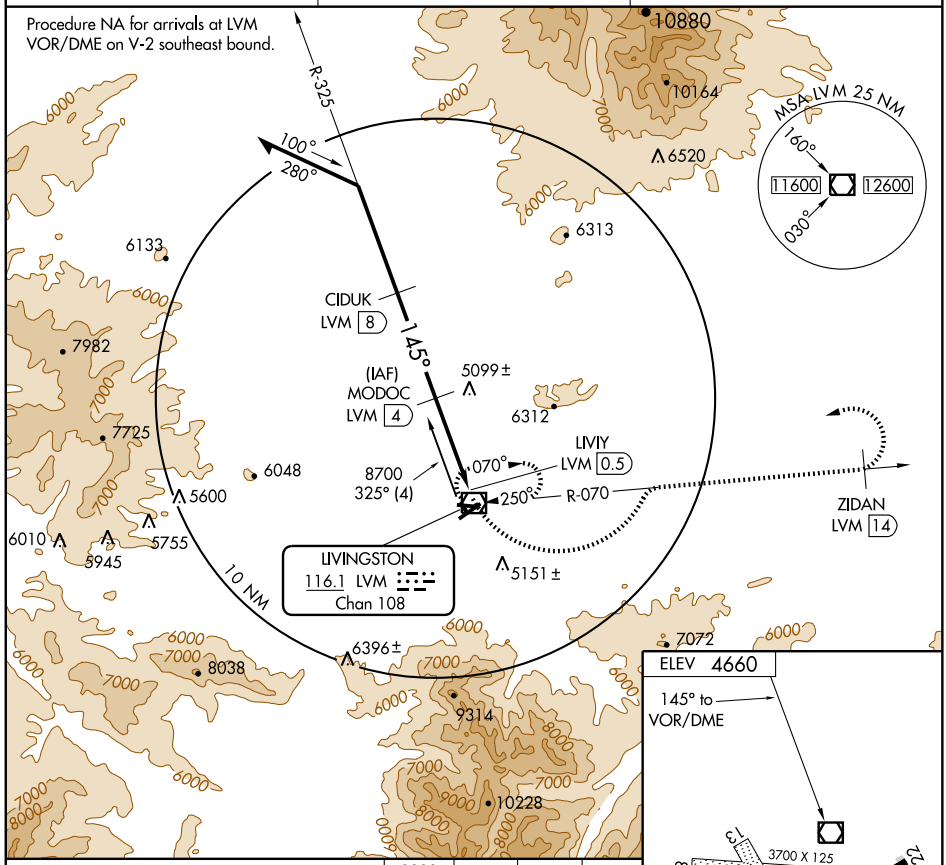
VOR/DME-B

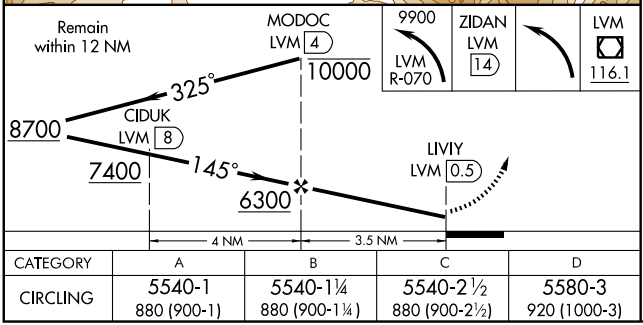
LIVINGSTON/ MISSION FIELD (LVM)

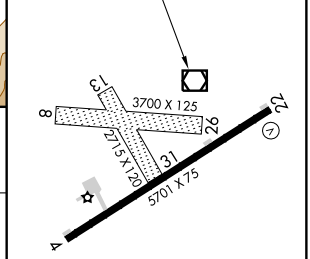
MISSED APPROACH: Climbing left turn to 9900 via LVM VOR/DME R-070 to ZIDAN/14 DME and left turn direct LVM VOR/DME and hold.

ASOS 135.275	GREAT FALLS RADIO 122.2	UNICOM 123.0 (CTAF) L

Procedure NA for arrivals at LVM VOR/DME on V-2 southeast bound.







CATEGORY	A	B	C	D
CIRCLING	5540-1 880 (900-1)	5540-1¼ 880 (900-1¼)	5540-2½ 880 (900-2½)	5580-3 920 (1000-3)

REIL Rwy 22
MIRL Rwy 4-22 L

NW-1, 03 JUN 2010 to 01 JUL 2010

APP CRS	Rwy Idg	4500
074°	TDZE	2254
	Apt Elev	2254

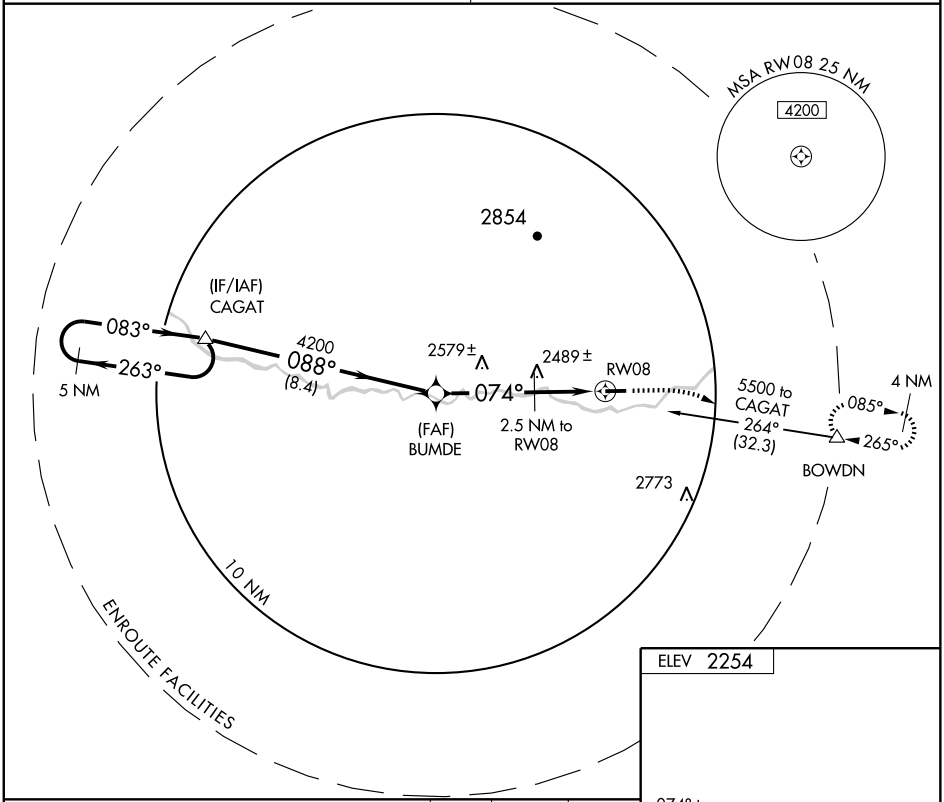
RNAV (GPS) RWY 8

MALTA (M75)

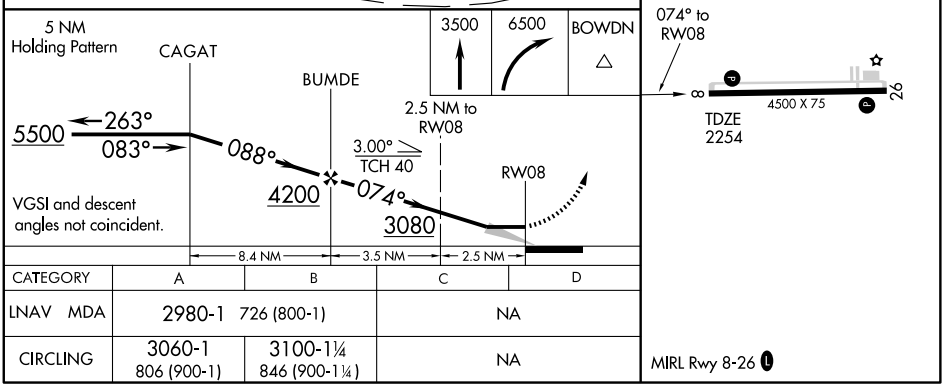
NA Use Glasgow altimeter setting; when not received procedure not authorized.
GPS or RNP- 0.3 required. DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climb to 3500 then climbing right turn to 6500 direct BOWDN WP and hold.

SALT LAKE CITY CENTER	UNICOM
126.85 305.2	122.8 (CTAF) L



ELEV 2254



CATEGORY	A	B	C	D
LNAV MDA	2980-1 726 (800-1)		NA	
CIRCLING	3060-1 806 (900-1)	3100-1¼ 846 (900-1¼)	NA	

MIRL Rwy 8-26 L

NW-1, 03 JUN 2010 to 01 JUL 2010

RNAV (GPS) RWY 26

MALTA (M75)

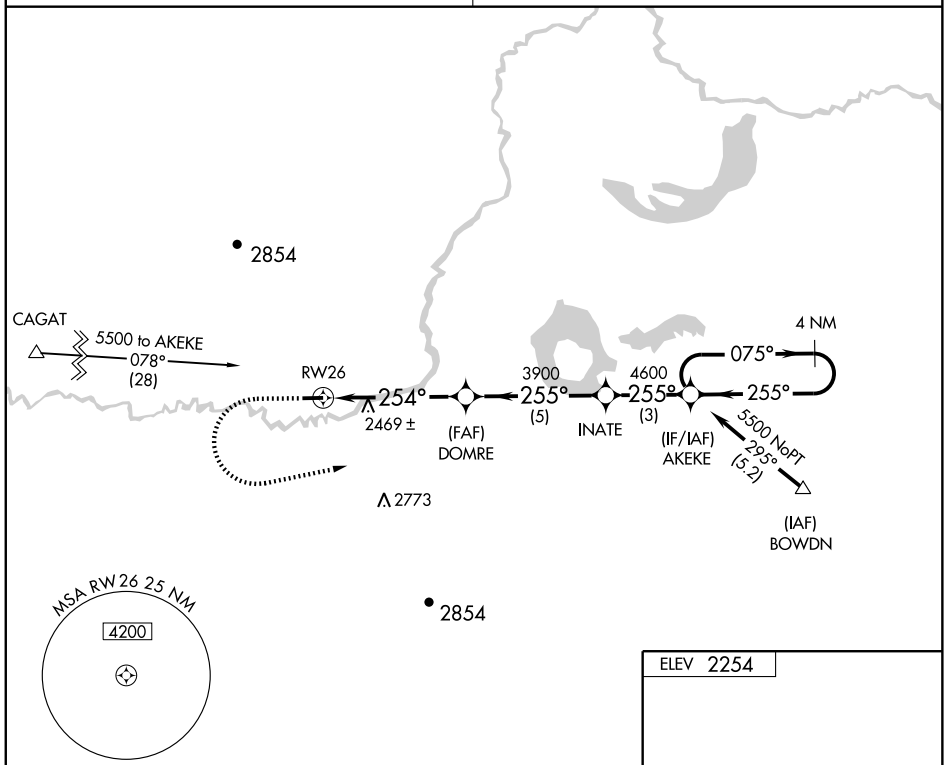
APP CRS	Rwy ldg	4500
254°	TDZE	2254
	Apt Elev	2254

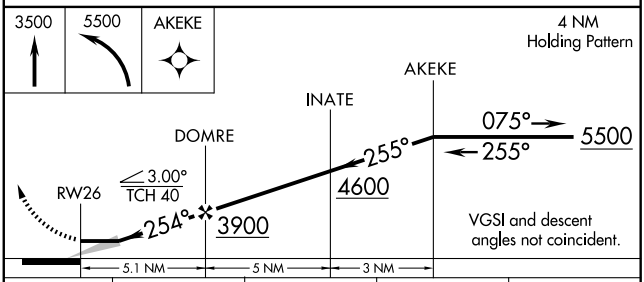
NA Use Glasgow altimeter setting; when not received procedure not authorized.
GPS or RNP- 0.3 required. DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climb to 3500 then climbing left turn to 5500 direct AKEKE WP and hold.

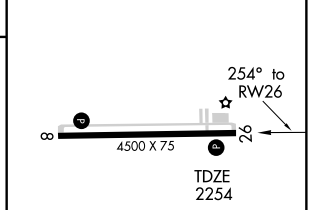
SALT LAKE CITY CENTER
126.85 305.2

UNICOM
122.8 (CTAF) L





CATEGORY	A	B	C	D
LNAV MDA	2960-1	706 (800-1)	NA	
CIRCLING	3060-1 806 (900-1)	3100-1¼ 846 (900-1¼)	NA	



MIRL Rwy 8-26 L

NW-1, 03 JUN 2010 to 01 JUL 2010

NDB HTN 320	APP CRS 057°	Rwy Idg 5680 TDZE 2629 Apt Elev 2630

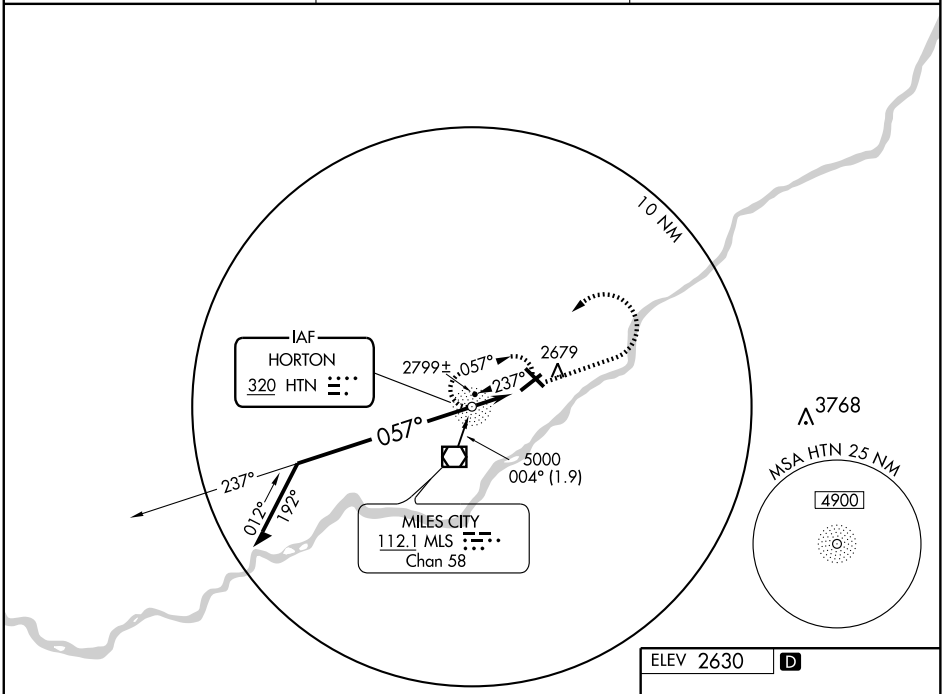
NDB RWY 4

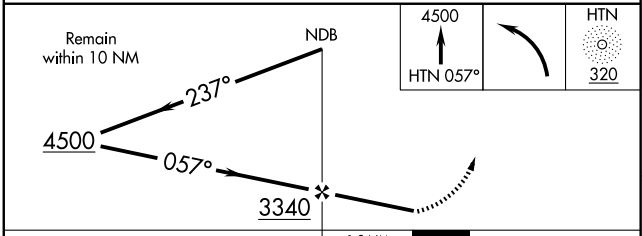
MILES CITY/ FRANK WILEY FIELD (MLS)

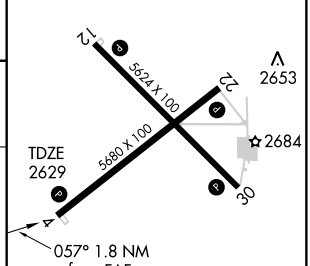
Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 4500 via 057° bearing from HTN NDB then left turn direct HTN NDB and hold.

ASOS	GREAT FALLS RADIO	UNICOM
135.575	122.2 255.4	123.0 (CTAF) L







CATEGORY	A	B	C	D
S-4	3060-1 431 (500-1)		3060-1¼ 431 (500-1¼)	3060-1½ 431 (500-1½)
CIRCLING	3060-1 430 (500-1)	3080-1 450 (500-1)	3100-1½ 470 (500-1½)	3180-2 550 (600-2)

REIL Rwys 4, 12, 22 and 30 L
MIRL Rwys 4-22 and 12-30 L

FAF to MAP 1.8 NM					
Knots	60	90	120	150	180
Min:Sec	1:48	1:12	0:54	0:43	0:36

NW-1, 03 JUN 2010 to 01 JUL 2010

WAAS	APP CRS	Rwy Idg	5680
CH 42600	040°	TDZE	2629
W04A		Apt Elev	2630

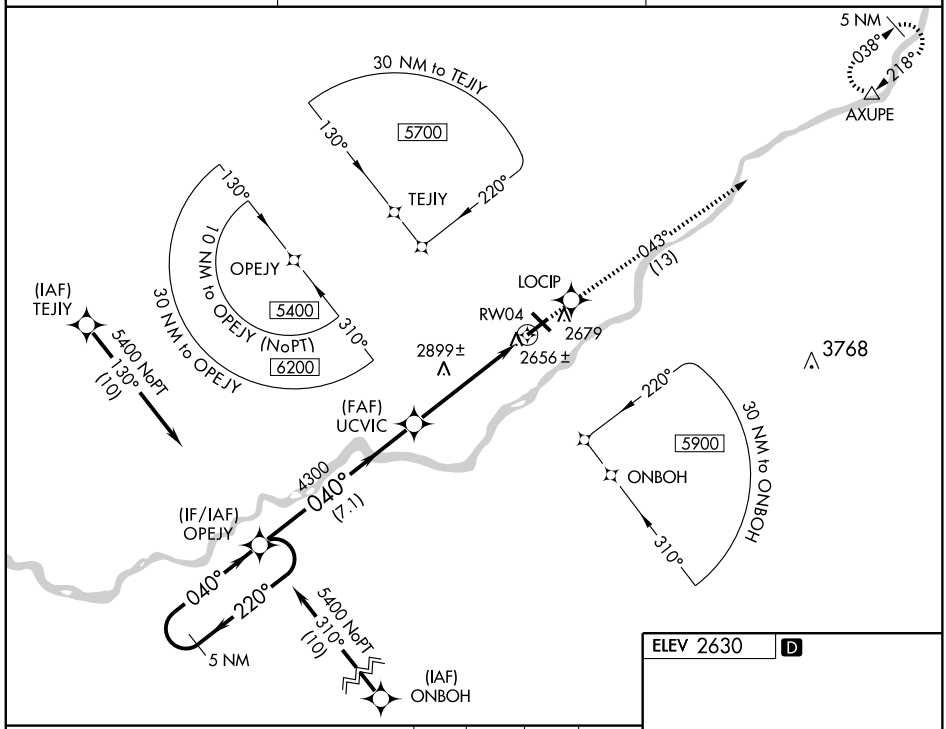
RNAV (GPS) RWY 4

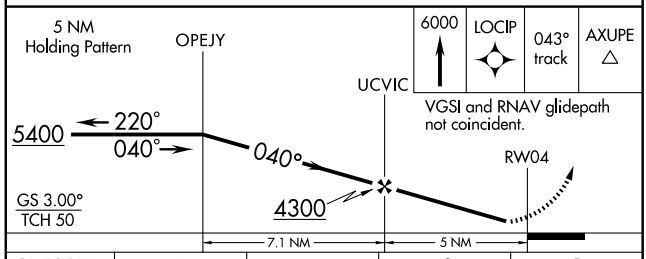
MILES CITY/ FRANK WILEY FIELD (MLS)

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -20°C (-4°F) or above 32°C (111°F).
Visibility reduction by helicopters NA.
DME/DME RNP- 0.3 NA.

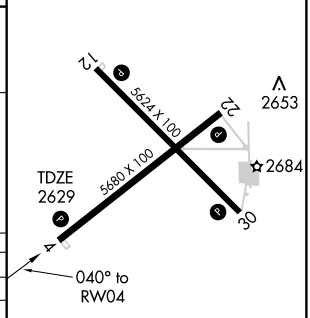
MISSED APPROACH: Climb to 6000 direct LOCIP and via 043° track to AXUPE and hold.

ASOS	GREAT FALLS RADIO	UNICOM
135.575	122.2 255.4	123.0 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	2879-1 250 (300-1)			
LNAV/VNAV DA	2926-1 297 (300-1)			
LNAV MDA	3160-1 531 (600-1)		3160-1½ 531 (600-1½)	3160-1¾ 531 (600-1¾)
CIRCLING	3160-1 530 (600-1)		3160-1½ 530 (600-1½)	3180-2 550 (600-2)



REIL Rwys 4, 12, 22 and 30 L
MIRL Rwys 4-22 and 12-30 L

NW-1, 03 JUN 2010 to 01 JUL 2010

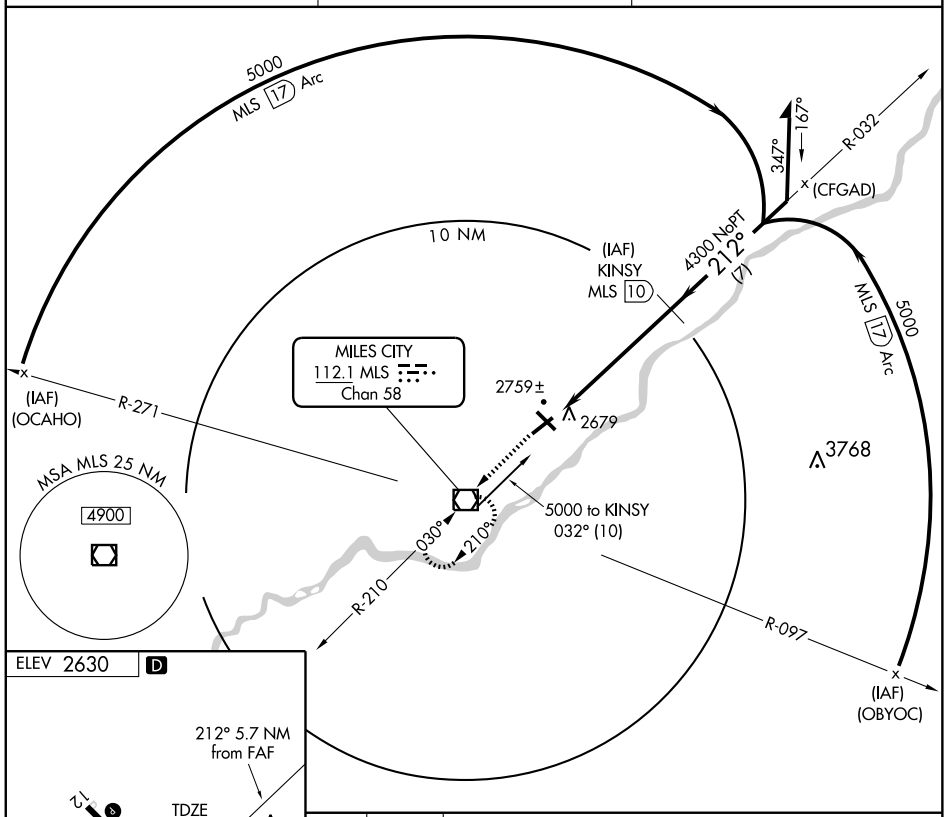
VOR/DME MLS	APP CRS	Rwy Idg	5680
112.1	212°	TDZE	2628
Chan 58		Apt Elev	2630

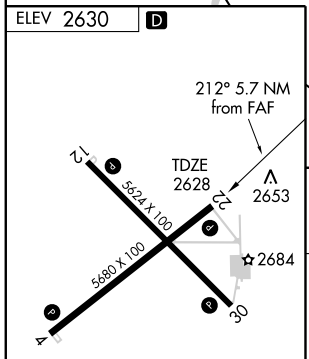
VOR/DME or GPS RWY 22

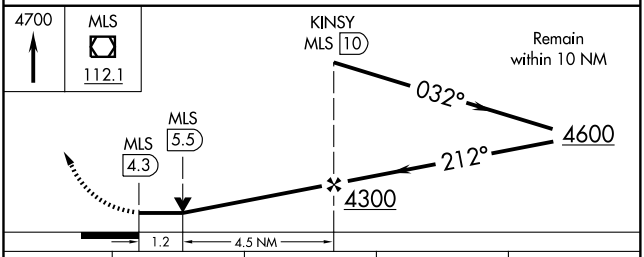
MILES CITY/FRANK WILEY FIELD (MLS)

MISSED APPROACH: Climb direct to MLS VOR/DME.
Continue climb to 4700 in MLS VOR/DME holding pattern.

ASOS	GREAT FALLS RADIO	UNICOM
135.575	122.2 255.4	123.0 (CTAF) L







CATEGORY	A	B	C	D
S-22	3020-1 392 (400-1)			3020-1¼ 392 (400-1¼)
CIRCLING	3060-1 430 (500-1)	3080-1 450 (500-1)	3100-1½ 470 (500-1½)	3180-2 550 (600-2)

REIL Rwys 4, 12, 22 and 30 L
MIRL Rwys 4-22 and 12-30 L

NW-1, 03 JUN 2010 to 01 JUL 2010

VOR/DME MLS	APP CRS	Rwy Idg	5680
112.1	030°	TDZE	2629
Chan 58		Apt Elev	2630

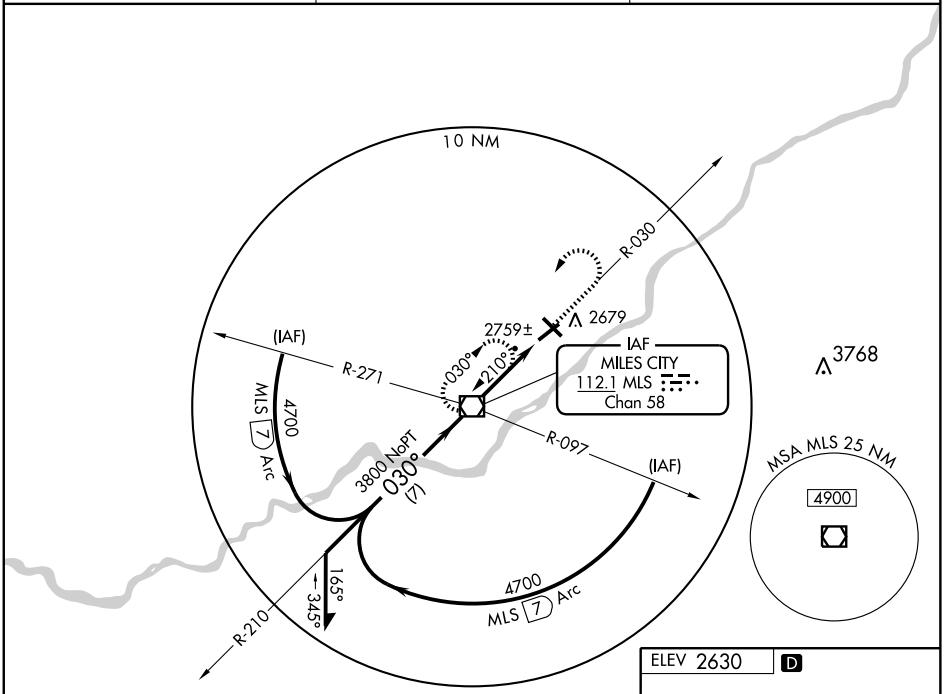
VOR RWY 4

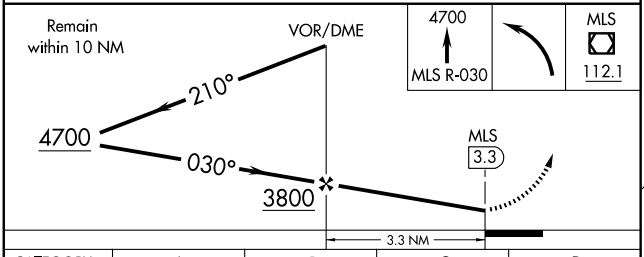
MILES CITY/ FRANK WILEY FIELD (MLS)

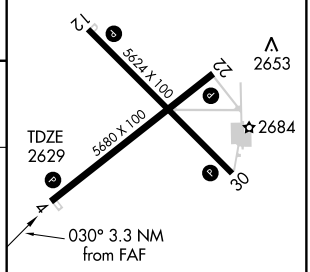
Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 4700 via MLS R-030 then left turn direct MLS VOR/DME and hold.

ASOS	GREAT FALLS RADIO	UNICOM
135.575	122.2 255.4	123.0 (CTAF) L







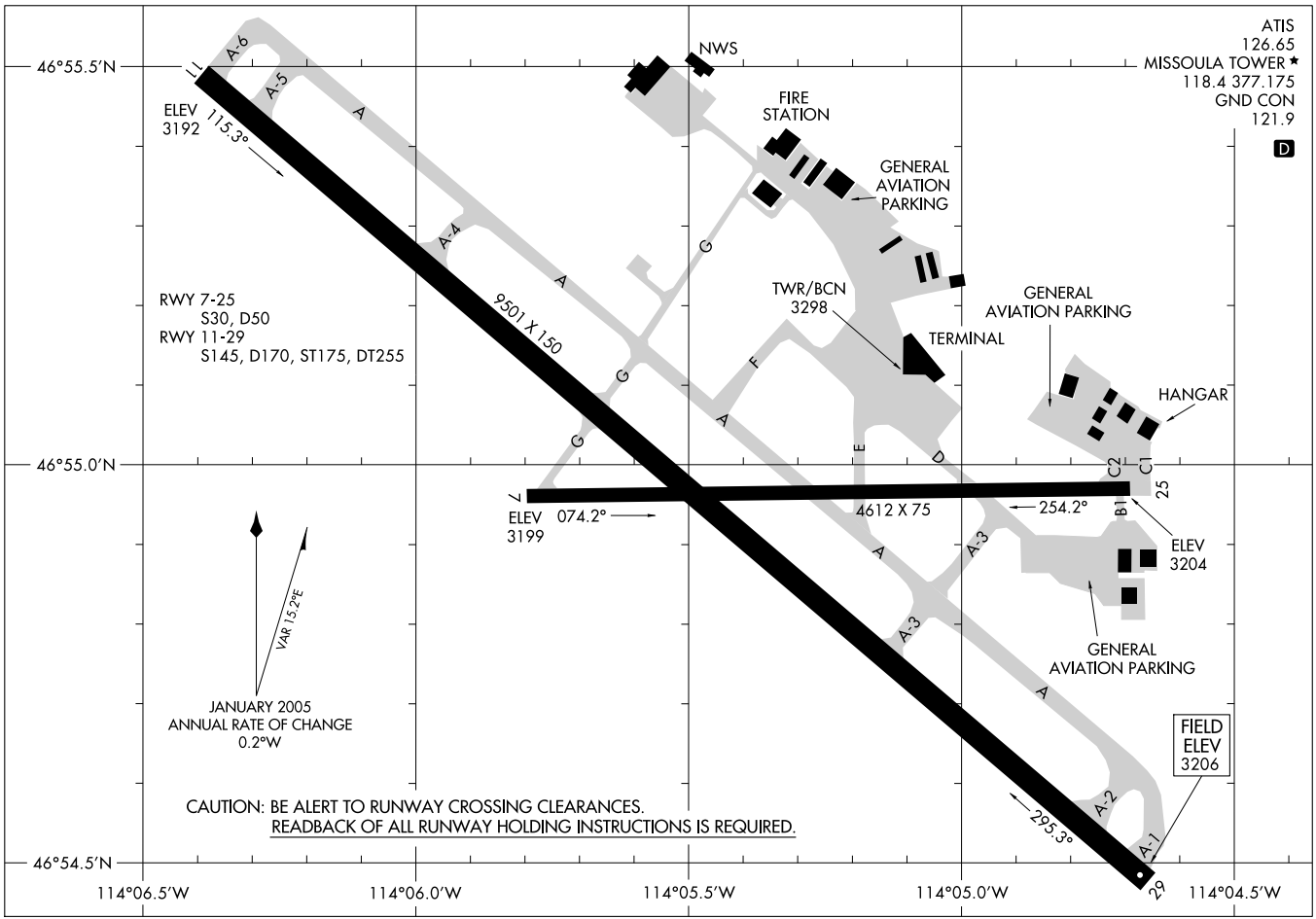
CATEGORY	A	B	C	D
S-4	3040-1 411 (500-1)		3040-1¼ 411 (500-1¼)	
CIRCLING	3060-1 430 (500-1)	3080-1 450 (500-1)	3100-1½ 470 (500-1½)	3180-2 550 (600-2)

REIL Rwys 4, 12, 22 and 30 L
MIRL Rwys 4-22 and 12-30 L

FAF to MAP 3.3 NM

Knots	60	90	120	150	180
Min:Sec	3:18	2:12	1:39	1:19	1:06

NW-1, 03 JUN 2010 to 01 JUL 2010


AIRPORT DIAGRAM
AL-266 (FAA)
MISSOULA INTL (MSO)
MISSOULA, MONTANA
ATIS
126.65
MISSOULA TOWER ★
118.4 377.175
GND CON
121.9
D
46°55.5'N
46°55.0'N
46°54.5'N
114°06.5'W
114°06.0'W
114°05.5'W
114°05.0'W
114°04.5'W
NWS
FIRE STATION
GENERAL AVIATION PARKING
TWR/BCN 3298
TERMINAL
GENERAL AVIATION PARKING
HANGAR
ELEV 3192
115.3°
9501 X 150
RWY 7-25
S30, D50
RWY 11-29
S145, D170, ST175, DT255
ELEV 3199
074.2°
4612 X 75
254.2°
ELEV 3204
GENERAL AVIATION PARKING
VAR 15.2°E
JANUARY 2005
ANNUAL RATE OF CHANGE
0.2°W
FIELD ELEV 3206
295.3°
CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.
A-1
A-2
A-3
A-4
A-5
A-6
7
25
29

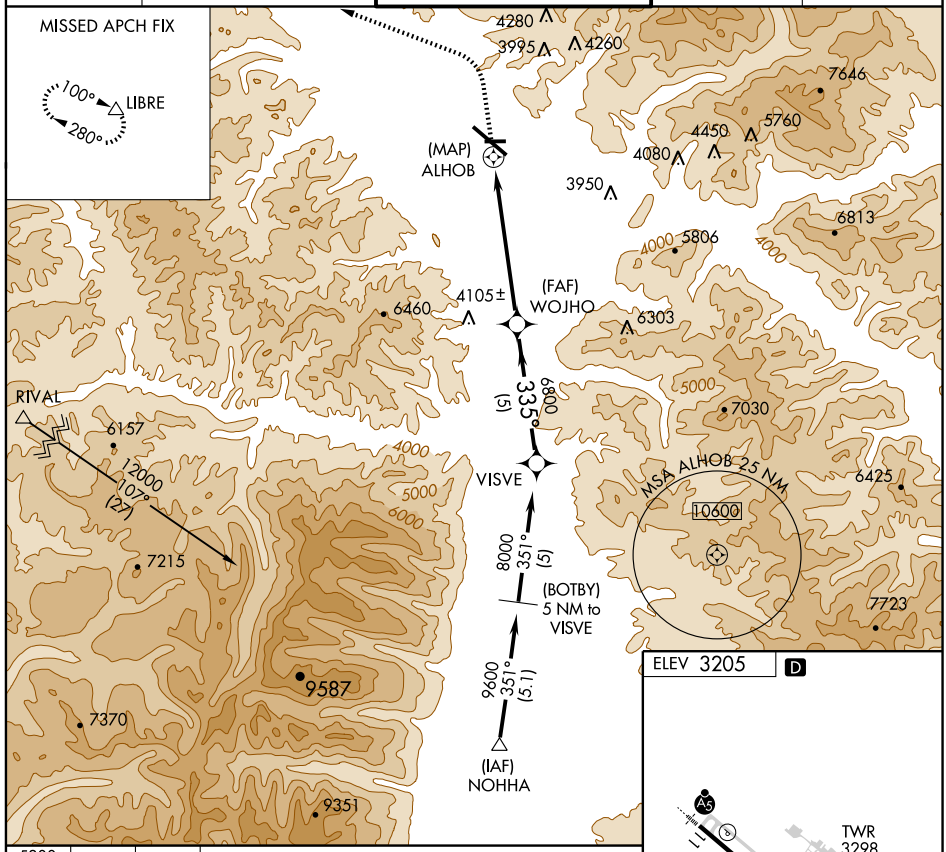
APP CRS	Rwy Idg	N/A
335°	TDZE	N/A
	Apt Elev	3205

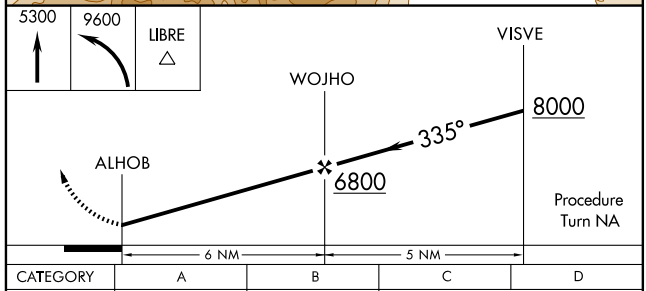
GPS-D
MISSOULA INTL (MSO)

NA

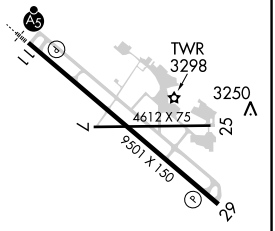
MISSED APPROACH: Climb to 5300 then climbing left turn to 9600 direct LIBRE WP and hold.

ATIS	SPOKANE APP CON ★	MISSOULA TOWER ★	GND CON	UNICOM
126.65	124.9 298.95	118.4 (CTAF) L 377.175	121.9	122.95





ELEV 3205 D



335° to ALHOB

REIL Rwy 29
MIRL Rwy 7-25
HIRL Rwy 11-29 L

CATEGORY	A	B	C	D
CIRCLING	5120-1¼ 1915 (2000-1¼)	5120-1½ 1915 (2000-1½)	5120-3 1915 (2000-3)	

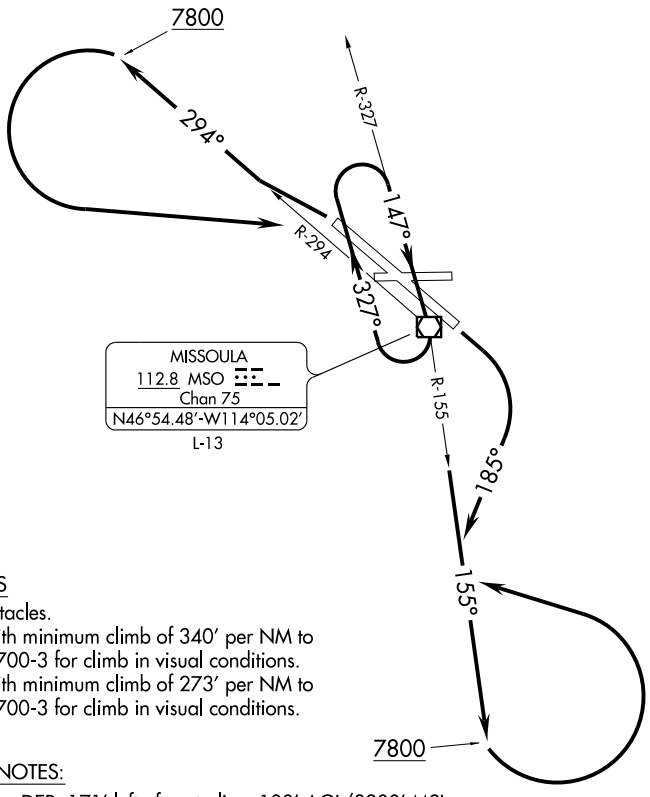
NW-1, 03 JUN 2010 to 01 JUL 2010

GRZLY ONE DEPARTURE (OBSTACLE)

SL-266 (FAA)

MISSOULA INTL (MSO)
MISSOULA, MONTANA

ATIS 126.65
GND CON
121.9
MISSOULA TOWER ★
118.4 (CTAF) 377.175
SPOKANE DEP CON
124.9 298.95
SALT LAKE CITY CENTER
133.4 285.4



TAKE-OFF MINIMUMS

RWY 7, 25: NA- Obstacles.
RWY 11: Standard with minimum climb of 340' per NM to 7800, or 2700-3 for climb in visual conditions.
RWY 29: Standard with minimum climb of 273' per NM to 7800, or 2700-3 for climb in visual conditions.

TAKE-OFF OBSTACLE NOTES:

RWY 11: Tree 505' from DER, 171' left of centerline, 100' AGL/3300' MSL.
Fence 38' from DER, 487' right of centerline, 21' AGL/3213' MSL
RWY 29: Multiple AAOs beginning 6.5 NM from DER, 1.5 NM left of centerline, up to 200' AGL/4639' MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 11: Climbing right turn heading 185° to intercept MSO R-155, southeast bound to 7800, thence. . . .
or, climb in visual conditions to cross MSO VOR/DME southeast bound at or above 5800, continue climb to 7800 via MSO VOR/DME R-155, thence. . . .

TAKE-OFF RUNWAY 29: Climb via MSO R-294 to 7800, then climbing left turn via MSO R-294 to MSO VOR/DME, climb in MSO VOR/DME holding pattern to MEA/MCA for route of flight or, climb in visual conditions to cross MSO VOR/DME southeast bound at or above 5800, continue climb to 7800 via MSO VOR/DME R-155, thence. . . .

. . . .climbing left turn via MSO VOR/DME R-155 to MSO VOR/DME, climb in MSO VOR/DME holding pattern to MEA/MCA for route of flight.

NW-1, 03 JUN 2010 to 01 JUL 2010

MISSOULA, MONTANA

AL-266 (FAA)

LOC I-MSO	APP CRS	Rwy Idg	9501
109.3	113°	TDZE	3200
		Apt Elev	3205

ILS RWY 11

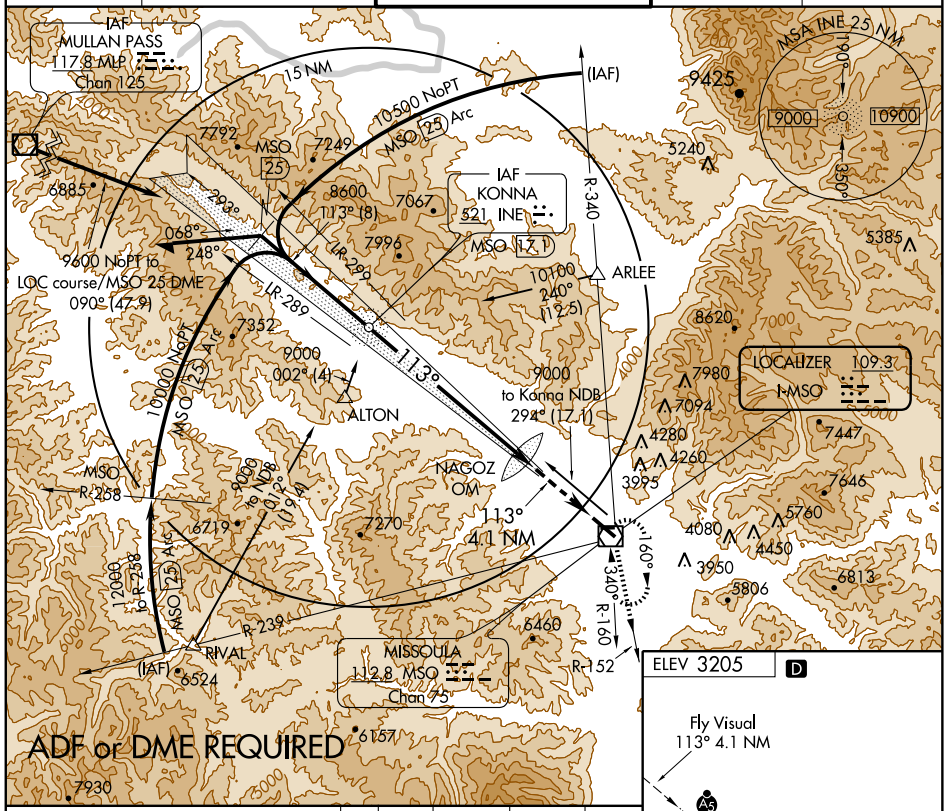
MISSOULA INTL (MSO)

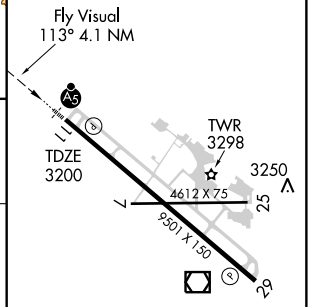
Inoperative table does not apply.

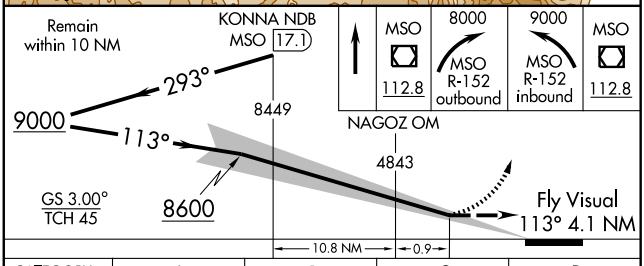
MALSR

MISSED APPROACH: Climb direct MSO VOR/DME then climbing right turn to 8000 outbound on MSO R-152 then climbing left turn to 9000 inbound on the MSO R-152 to MSO VOR/DME and hold.

ATIS	SPOKANE APP CON ★	MISSOULA TOWER ★	GND CON	UNICOM
126.65	124.9 298.95	118.4 (CTAF) L 377.175	121.9	122.95







CATEGORY	A	B	C	D
S-ILS 11	4550-5 1350 (1400-5)			
S-LOC 11	NA			
CIRCLING	NA			

REIL Rwy 29
MIRL Rwy 7-25
HIRL Rwy 11-29 L

NW-1, 03 JUN 2010 to 01 JUL 2010

KONNA TWO DEPARTURE

SL-266 (FAA)

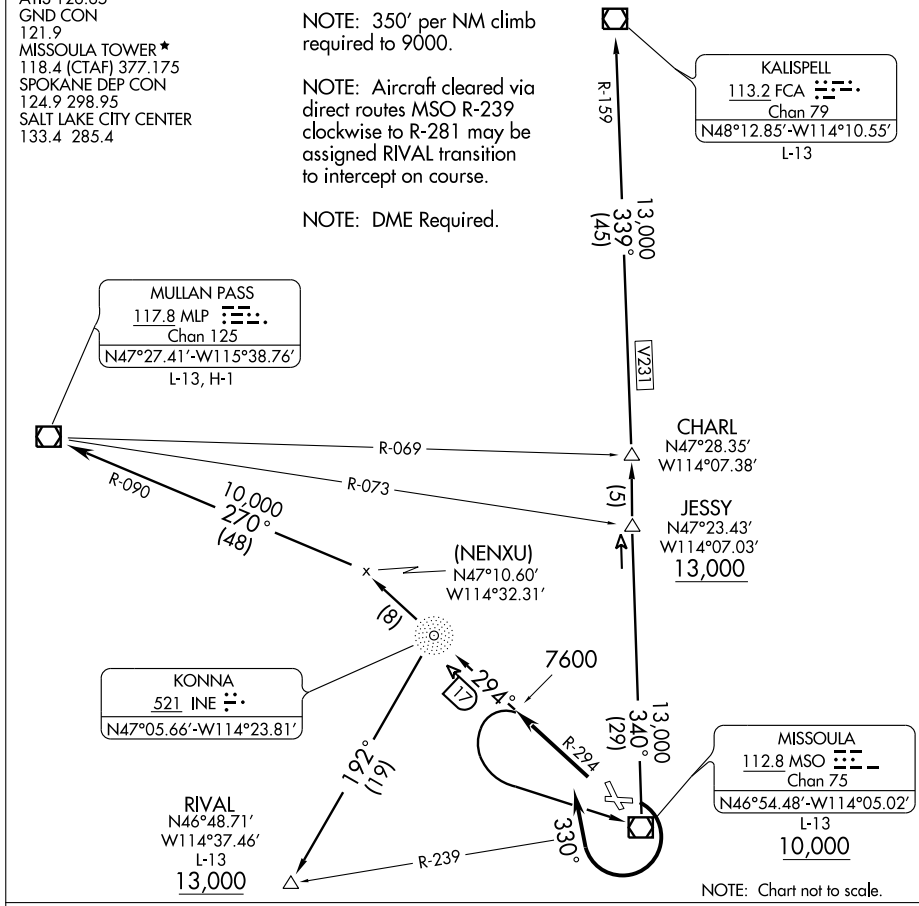
MISSOULA INTL (MSO)
MISSOULA, MONTANA

ATIS 126.65
GND CON
121.9
MISSOULA TOWER ★
118.4 (CTAF) 377.175
SPOKANE DEP CON
124.9 298.95
SALT LAKE CITY CENTER
133.4 285.4

NOTE: 350′ per NM climb required to 9000.

NOTE: Aircraft cleared via direct routes MSO R-239 clockwise to R-281 may be assigned RIVAL transition to intercept on course.

NOTE: DME Required.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 7 AND 25: Not authorized.
TAKE-OFF RUNWAY 11: Climbing right turn heading 330° to intercept MSO R-294, then climb to 7600′ via MSO R-294, then climb via (transition).
TAKE-OFF RUNWAY 29: Intercept MSO R-294 immediately after departure, then climb to 7600′ via MSO R-294, then climb via (transition).
KALISPELL TRANSITION (KONNA2.FCA): After leaving 7600′, make a climbing left turn direct MSO VOR/DME, then via V231 to FCA VOR/DME.
MISSOULA TRANSITION (KONNA2.MSO): After leaving 7600′, make a climbing left turn direct MSO VOR/DME.
MULLAN PASS TRANSITION (KONNA2.MLP): After reaching 7600′, continue on MSO R-294 and MLP R-090 to MLP VOR/DME.
RIVAL TRANSITION (KONNA2.RIVAL): After reaching 7600′, continue on MSO R-294 and INE NDB 192° bearing to RIVAL INT.

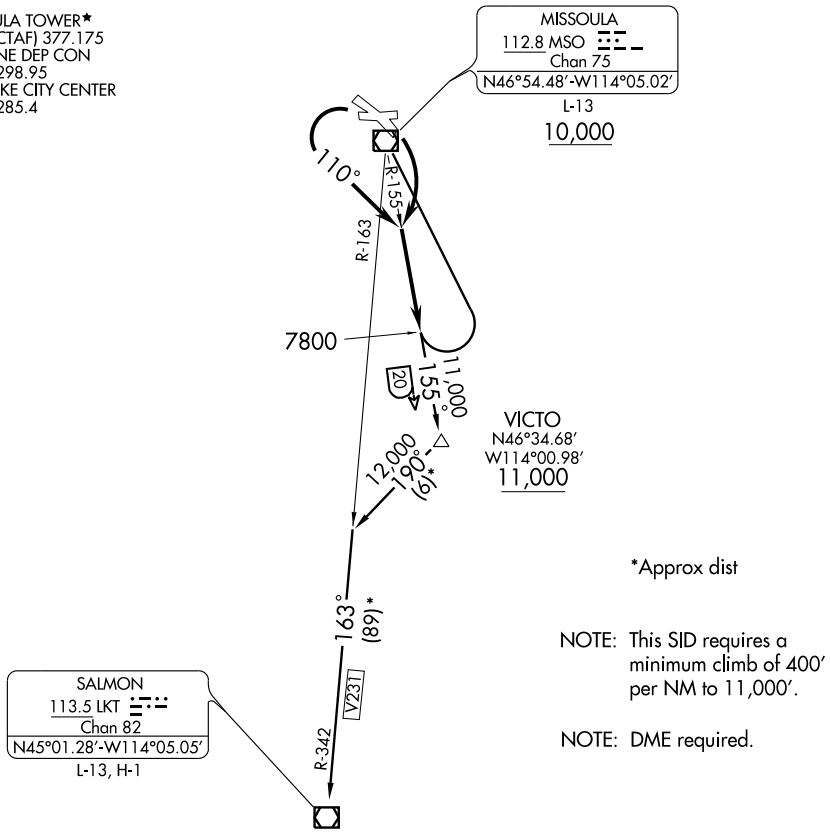
NW-1, 03 JUN 2010 to 01 JUL 2010

MZULA ONE DEPARTURE

SL-266 (FAA)

MISSOULA INTL (MSO)
MISSOULA, MONTANA

ATIS 126.65
GND CON
121.9
MISSOULA TOWER★
118.4 (CTAF) 377.175
SPOKANE DEP CON
124.9 298.95
SALT LAKE CITY CENTER
133.4 285.4



*Approx dist

NOTE: This SID requires a minimum climb of 400' per NM to 11,000'.

NOTE: DME required.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 7: Not authorized.
TAKE-OFF RUNWAY 11: Climbing right turn to intercept MSO R-155, thence....
TAKE-OFF RUNWAY 25 OR 29: Climbing left turn heading 110° to intercept MSO R-155, thence....
....climb to 7800' via MSO R-155; thence climb via (transition).
MISSOULA TRANSITION (MZULA1.MSO): After leaving 7800', make a climbing left turn direct to MSO VOR/DME.
SALMON TRANSITION (MZULA1.LKT): After reaching 7800' continue on MSO R-155 until VICTO INT. Then via 190° heading and V231 to LKT VOR/DME.

NW-1, 03 JUN 2010 to 01 JUL 2010

WAAS	APP CRS	Rwy Idg	9501
CH 65715	113°	TDZE	3200
W11B		Apt Elev	3206

RNAV (GPS) Y RWY 11

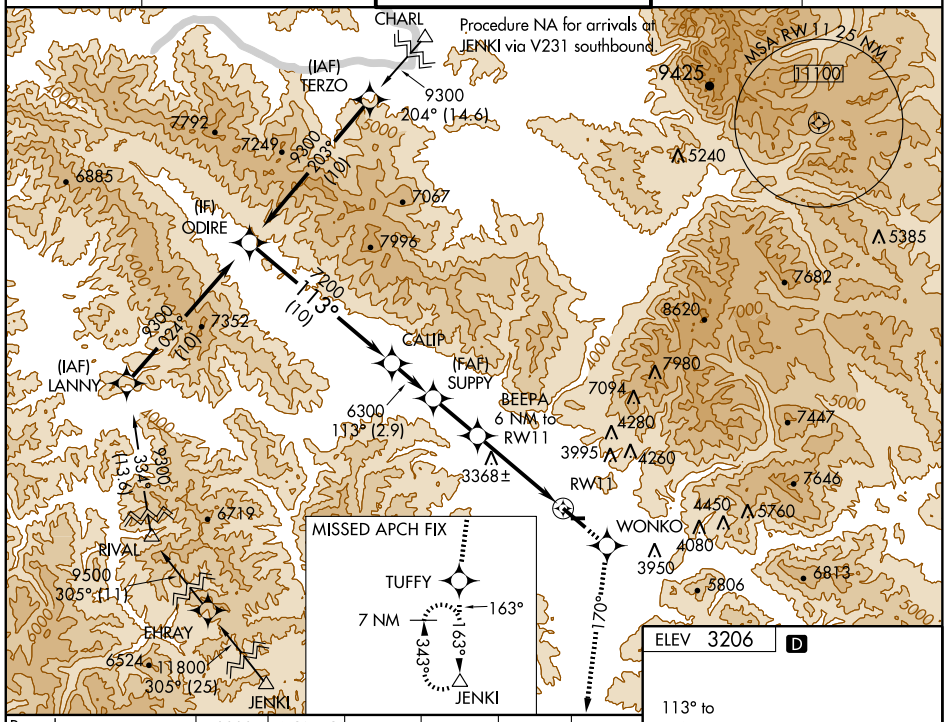
MISSOULA INTL (MSO)

Inoperative table does not apply to LNAV % Cats. A and B. For inoperative MALSR, increase LPV visibility all Cats. to 2½ miles. DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.
#Missed approach requires minimum climb of 290 feet per NM to 8300.

MALSR

MISSED APPROACH: Climb to 12000 direct WONKO and via track 170° to TUFFY and via track 163° to JENKI and hold.

ATIS	SPOKANE APP CON ★	MISSOULA TOWER ★	GND CON	UNICOM
126.65	124.9 298.95	118.4 (CTAF) L 377.175	121.9	122.95



Procedure Turn NA ODIRE	12000	WONKO	trk 170°	TUFFY	trk 163°	JENKI
9300						
113°	CALIP	SUPPY	BEEPA 6 NM to RW11	*3.1 NM to RW11	* LNAV only.	
GS 3.08° TCH 55	7200	6300				
VGSI and RNAV glidepath not coincident.	6300		5220*		RW11	
	10 NM		2.9 NM	3.1 NM	2.9 NM	3.1 NM

CATEGORY	A	B	C	D
LPV DA#	3896-2 696 (700-2)			
LNAV MDA#	4220-¾ 1020 (1100-¾)	4220-1 1020 (1100-1)	4220-2½ 1020 (1100-2½)	
LNAV MDA%	5100-1¼ 1900 (2000-1¼)	5100-1½ 1900 (2000-1½)	5100-2½ 1900 (2000-2½)	
CIRCLING	5100-1¼ 1894 (1900-1¼)	5100-1½ 1894 (1900-1½)	5100-3 1894 (1900-3)	

REIL Rwy 29
MIRL Rwy 7-25
HIRL Rwy 11-29 L

NW-1, 03 JUN 2010 to 01 JUL 2010

APP CRS	Rwy Idg	9501
294°	TDZE	3205
	Apt Elev	3205

RNAV (RNP) RWY 29

MISSOULA INTL (MSO)

RF and GPS required. When local altimeter setting not received, procedure NA. For uncompensated Baro-VNAV systems, procedure NA below -21°C (-5°F) or above 43°C (109°F).
* Missed approach requires minimum climb of 215 feet per NM to 5000.

MISSED APPROACH: Climb to 11000 via track 293° to SUPPY, and via track 288° to HEDVA, and via track 293° to LOCIV, and via right turn to NEYOC, and via track 127° to ARLEE and hold.

ATIS	SPOKANE APP CON ★	MISSOULA TOWER ★	GND CON	UNICOM
126.65	124.9 298.95	118.4 (CTAF) L 377.175	121.9	122.95

Procedure NA for arrivals on MSO VOR/DME airway radials 055 CW 163.

MISSED APPROACH
NEYOC
(24.1)
127°
(14.1)
7 NM
160°
340°
ARLEE
LOCIV
FROM HEDVA

HEDVA
293° (8)
288° (6.5)
SUPPY
293° (10.7)
(IAF) MISSOULA MSO (RNP 0.50)
RW29 (2.6)
294°
STOVN
017° (1.4)
(3.2)
FISIS
(FAF) JEXOM
CEBED
(IF) TUFFY
6000
351° (4.5)
9000 to CUPRA
106° (9.9)
CUPRA
Max 210 KIAS
5600
017° (2.2)
6600
(8.9)
343° (9)
6600
WAMIS
Max 210 KIAS
(IAF) ROKNY
8800
246° (5)
10000
247° (46.6)
PIXXI (RNP 0.50)
(IAF) NOHHA
WEDAK (RNP 0.50)
343° (40.2)
MSA RW 29 25 NM
10900
7996
7352
7682
8620
7980
7094
4280
4260
3995
7447
4080
4450
7645
5760
3950
6813
5806
6303
6460
7030
6425
7215
9587
9351
9800
8160
7723 (46.6)

ELEV 3205 D

TWR 3298
3250
4612 X 75
9501 X 150
25
29
TDZE 3205
294° to RW29
REIL Rwy 29
MIRL Rwy 7-25
HIRL Rwy 11-29 L

11000 trk 293°	SUPPY	trk 288°	HEDVA

TUFFY
CEBED
JEXOM
FISIS
STOVN
RW29
4089
5135
5600
017°
351°
6600
6000
5600
294°
017°
Procedure Turn NA
GP 3.00° TCH 50
2.6 NM | 3.2 NM | 1.4 NM | 2.2 NM | 4.5 NM

CATEGORY	A	B	C	D
RNP 0.30 DA*	3523-1 318 (400-1)			
RNP 0.30 DA	3581-1¼ 376 (400-1¼)			

SPECIAL AIRCRAFT AND AIRCREW AUTHORIZATION REQUIRED

NW-1. 03 JUN 2010 to 01 JUL 2010

APP CRS	Rwy Idg	9501
113°	TDZE	3200
	Apt Elev	3206

RNAV (RNP) Z RWY 11

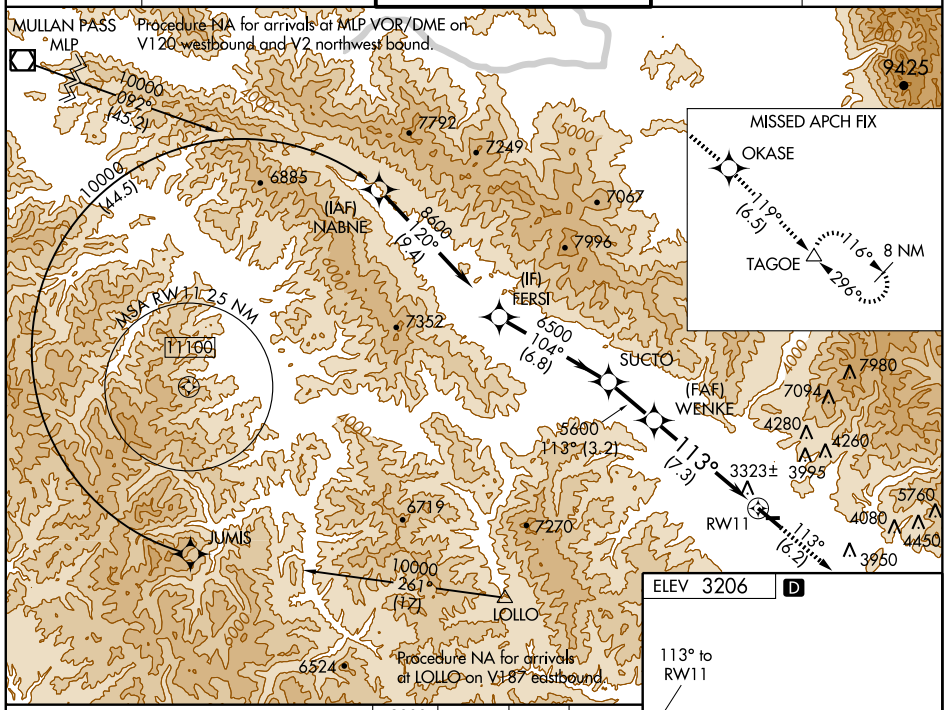
MISSOULA INTL (MSO)

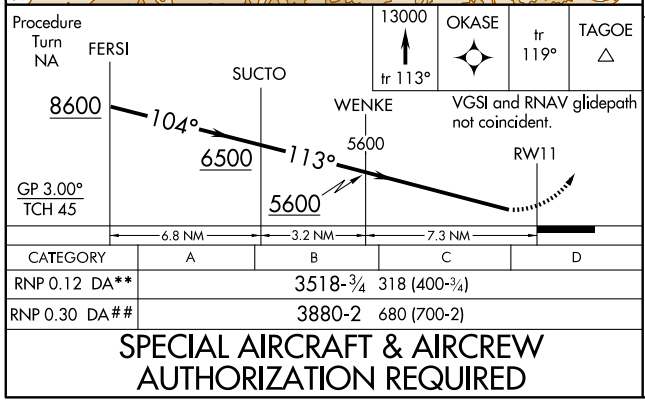
GPS required. Visibility reduction by helicopters NA. For uncompensated Baro-VNAV systems, procedure NA below -21°C (-6°F) or above 43°C (109°F). For inoperative MALSR increase RNP 0.12 visibility all Cats to 1¼, RNP 0.30 visibility all Cats to 2½.
**Missed approach requires minimum climb of 425 feet per NM to 8300.
##Missed approach requires minimum climb of 350 feet per NM to 8300, if unable see RNAV (GPS) Y RWY 11.

MALSR

MISSED APPROACH: Climb to 13000 via track 113° to OKASE, and via track 119° to TAGOE and hold, continue climb-in-hold to 13000.

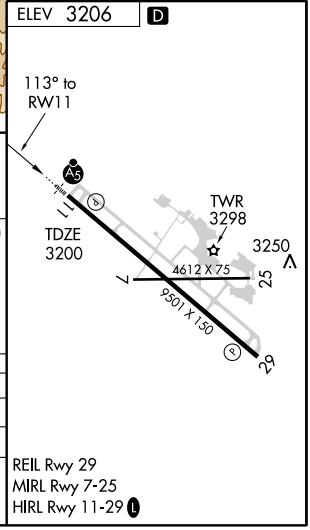
ATIS	SPOKANE APP CON ★	MISSOULA TOWER ★	GND CON	UNICOM
126.65	124.9 298.95	118.4 (CTAF) L 377.175	121.9	122.95





CATEGORY	A	B	C	D
RNP 0.12 DA**	3518-¾ 318 (400-¾)			
RNP 0.30 DA##	3880-2 680 (700-2)			

SPECIAL AIRCRAFT & AIRCREW AUTHORIZATION REQUIRED



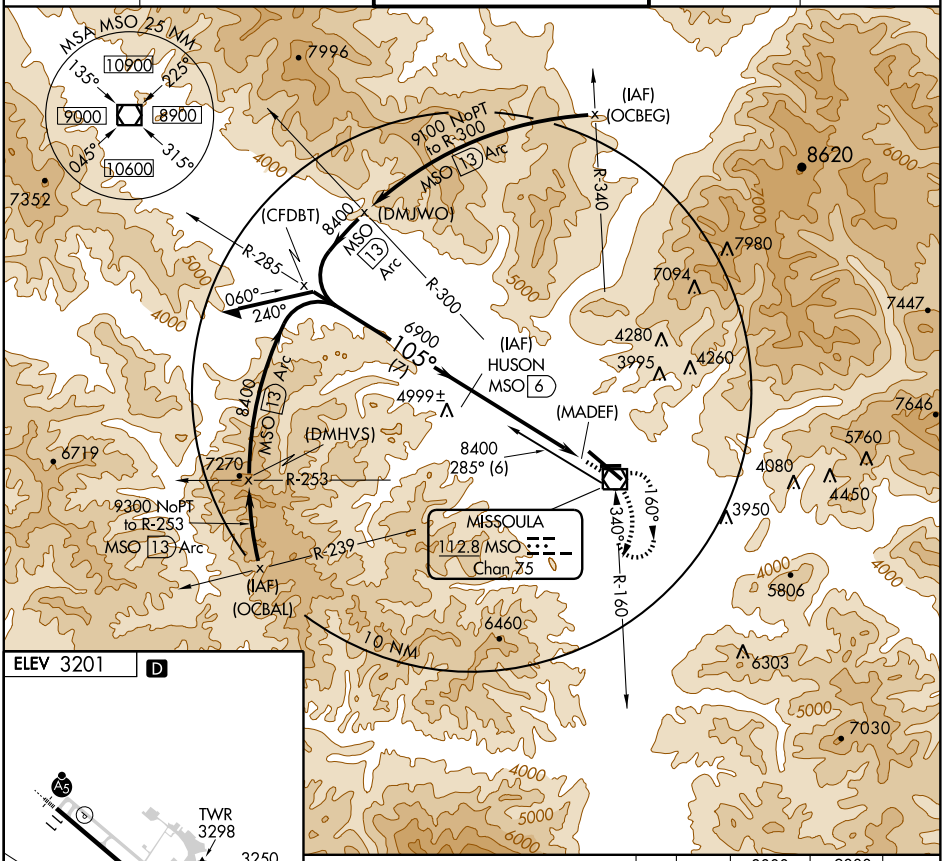
NW-1. 03 JUN 2010 to 01 JUL 2010

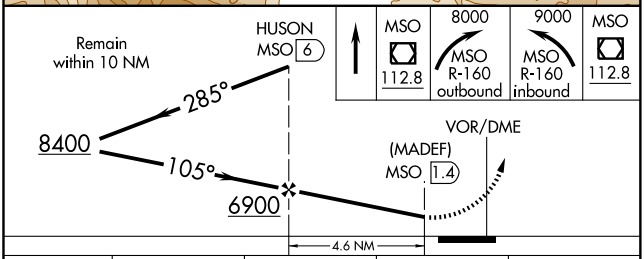
VOR/DME MSO	APP CRS	Rwy Idg	N/A
112.8	105°	TDZE	N/A
Chan 75		Apt Elev	3201

VOR/DME or GPS-A
MISSOULA INTL (MSO)

MISSED APPROACH: Climb direct to MSO VOR/DME, then climbing right turn to 8000 outbound on R-160 then climbing left turn to 9000 inbound on the R-160 to MSO VOR/DME and hold.

ATIS	SPOKANE APP CON ★	MISSOULA TOWER ★	GND CON	UNICOM
126.65	124.9 298.95	118.4 (CTAF) L 377.175	121.9	122.95





CATEGORY	A	B	C	D
CIRCLING	5060-1¼ 1859 (1900-1¼)	5060-1½ 1859 (1900-1½)	5060-3	1859 (1900-3)

REIL Rwy 29
MIRL Rwy 7-25
HIRL Rwy 11-29 L

NW-1, 03 JUN 2010 to 01 JUL 2010

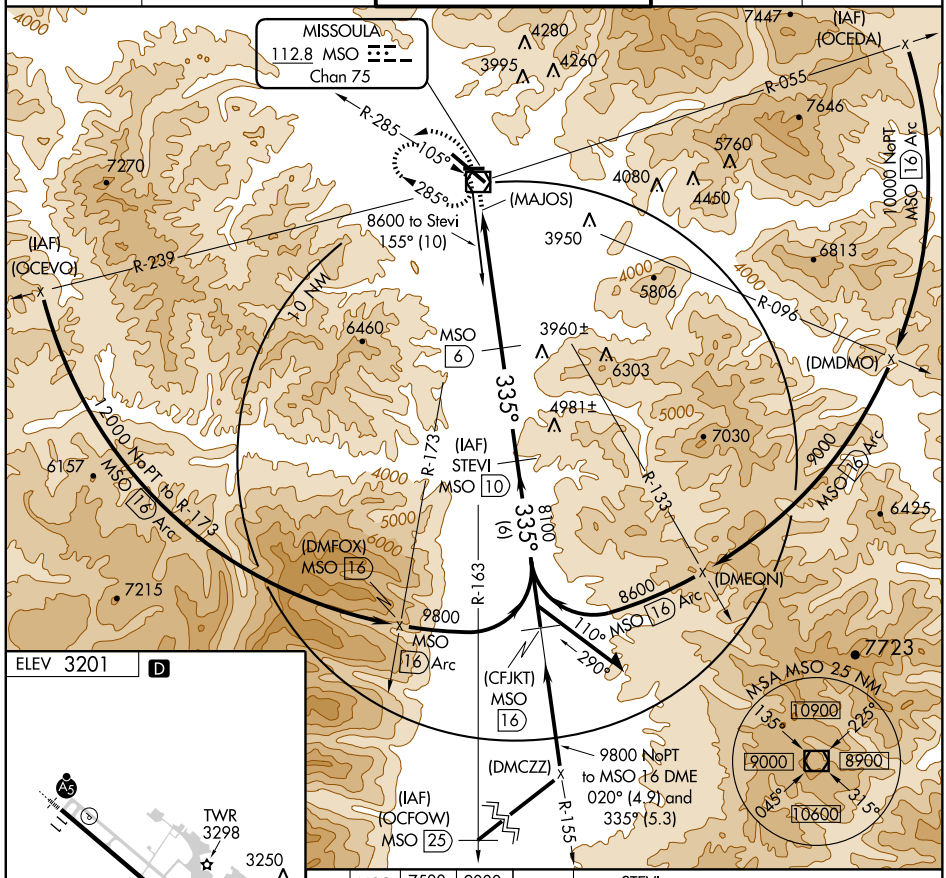
VOR/DME MSO	APP CRS	Rwy Idg	N/A
112.8	335°	TDZE	N/A
Chan 75		Apt Elev	3201

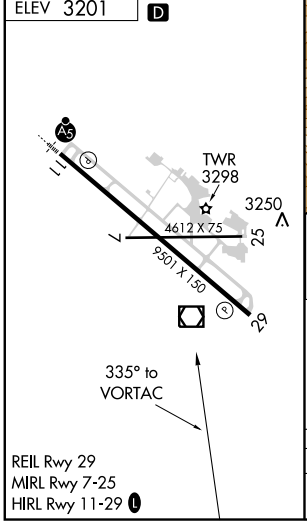
VOR/DME or GPS-B

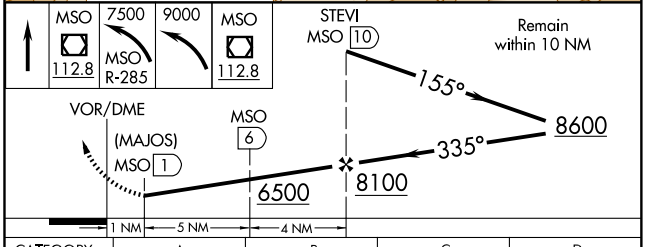
MISSOULA INTL (MSO)

MISSED APPROACH: Climb direct MSO VOR/DME, then climbing left turn to 7500 on R-285 then climbing left turn to 9000 direct MSO VOR/DME and hold.

ATIS	SPOKANE APP CON ★	MISSOULA TOWER ★	GND CON	UNICOM
126.65	124.9 298.95	118.4 (CTAF) L 377.175	121.9	122.95







CATEGORY	A	B	C	D
CIRCLING	4500-1¼ 1299 (1300-1¼)	4500-1½ 1299 (1300-1½)	4600-3 1399 (1400-3)	4740-3 1539 (1600-3)

NW-1, 03 JUN 2010 to 01 JUL 2010

PLENTYWOOD, MONTANA AL-10315 (FAA)

APP CRS		
302°	Rwy Idg	N/A
	TDZE	N/A
	Apt Elev	2250

RNAV (GPS)-A

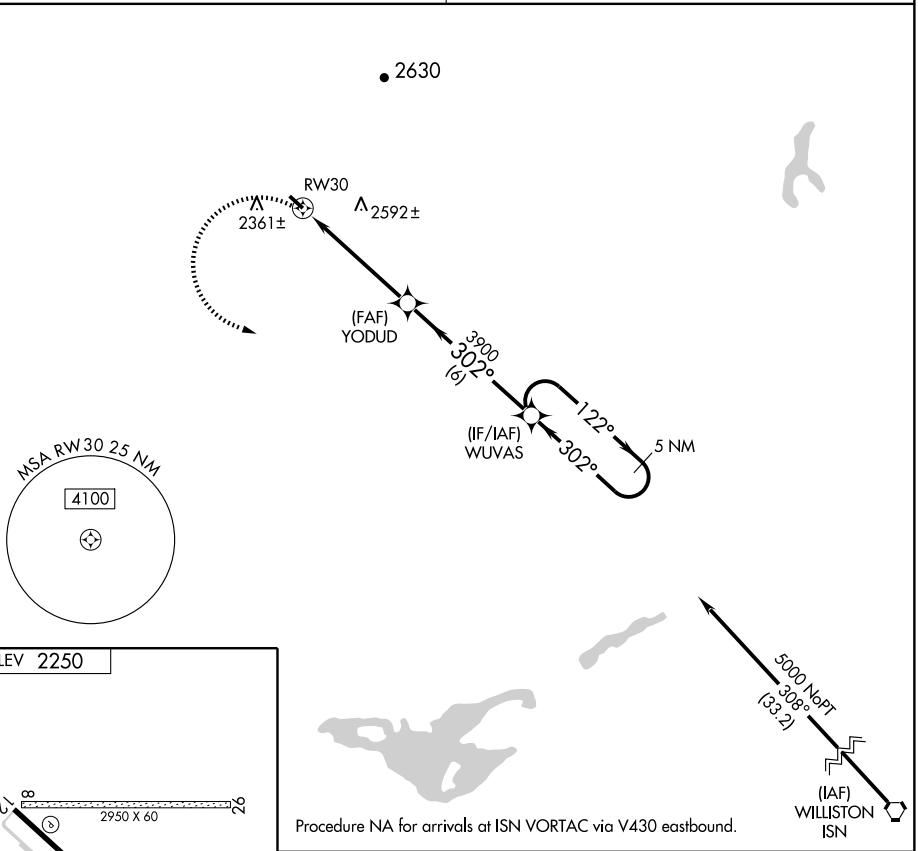
PLENTYWOOD/ SHER-WOOD (PWD)

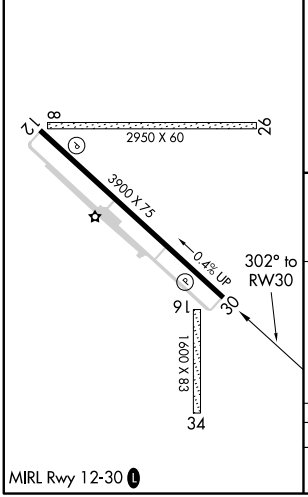
NA

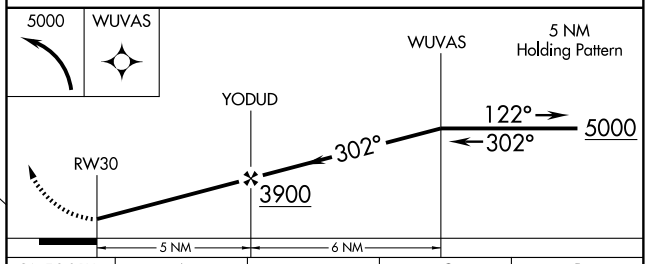
Procedure NA at night. DME/DME RNP- 0.3 NA.
Use Sloulin Fld Intl, ND altimeter setting, if not received, use Wolf Point/ L.M. Clayton altimeter setting and increase all MDAs 40 feet.

MISSED APPROACH: Climbing left turn to 5000 direct WUVAS and hold.

SALT LAKE CENTER	UNICOM
126.85 305.2	122.8 (CTAF) L





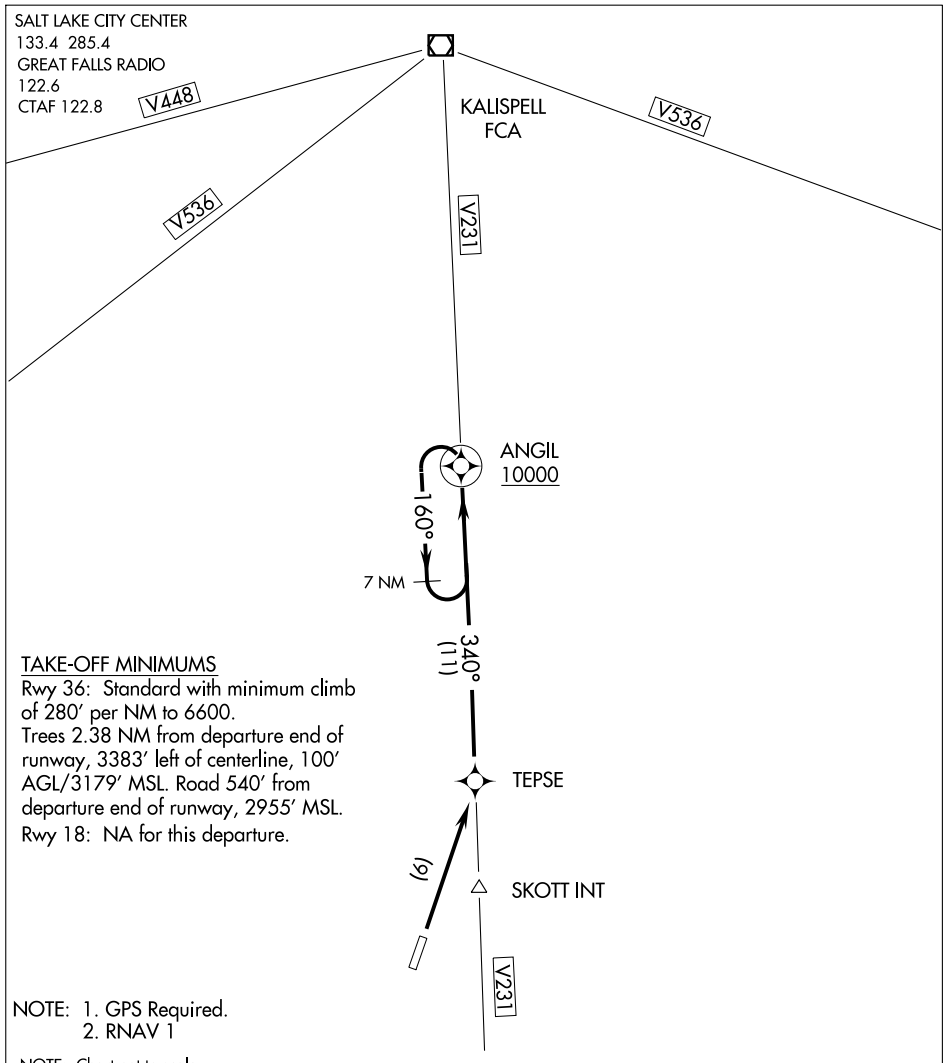


CATEGORY	A	B	C	D
CIRCLING	2840-1	590 (600-1)	NA	

MIRL Rwy 12-30 L

NW-1, 03 JUN 2010 to 01 JUL 2010

ANGIL ONE DEPARTURE (RNAV) (OBSTACLE)



TAKE-OFF MINIMUMS
Rwy 36: Standard with minimum climb of 280′ per NM to 6600.
Trees 2.38 NM from departure end of runway, 3383′ left of centerline, 100′ AGL/3179′ MSL. Road 540′ from departure end of runway, 2955′ MSL.
Rwy 18: NA for this departure.

NOTE: 1. GPS Required.
2. RNAV 1

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 36: Climb direct to TEPSE WP, then via 340° track to ANGIL WP, Thence....

....Climb in the ANGIL WP holding pattern to cross ANGIL WP at or above 10,000 prior to proceeding on course.

POLSON, MONTANA

AL-9529 (FAA)

APP CRS	Rwy Idg	4195
182°	TDZE	2941
	Apt Elev	2941

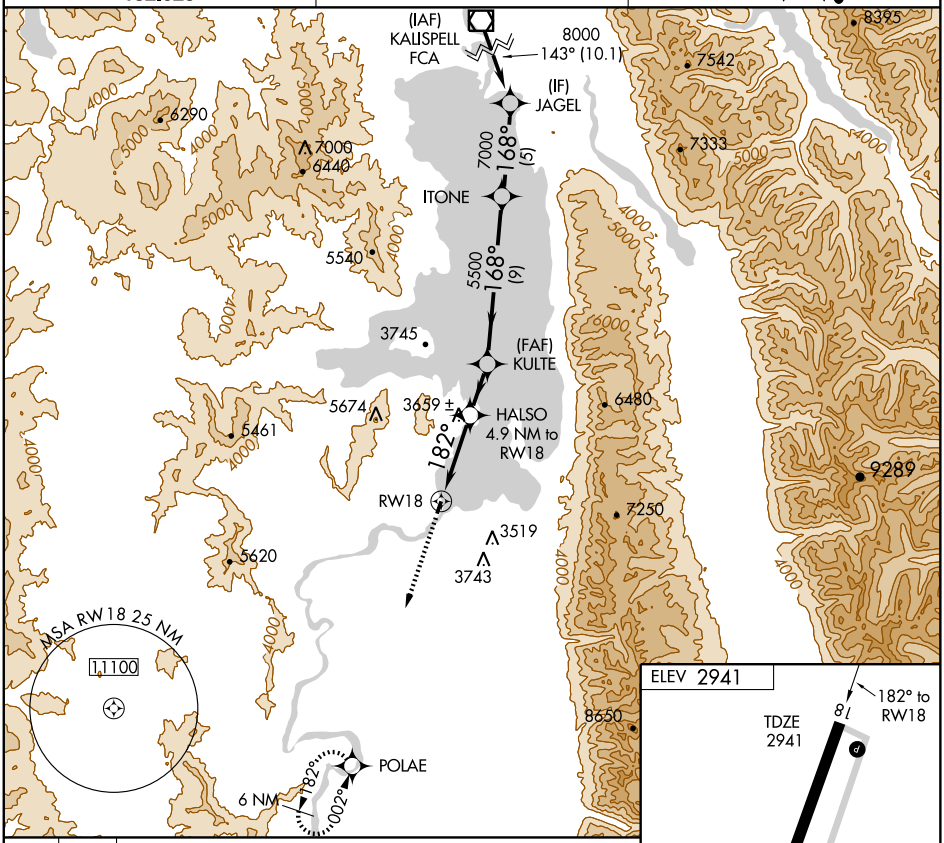
RNAV (GPS) RWY 18

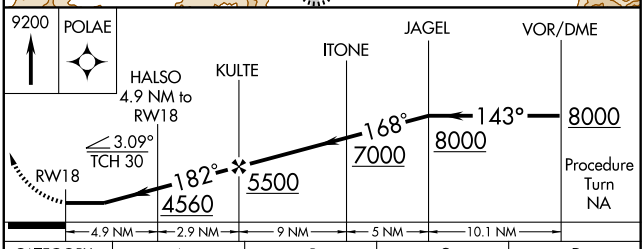
POLSON (8S1)

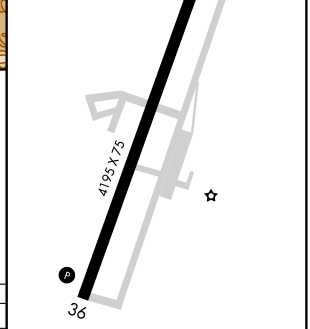
Procedure NA at night.
DME/DME RNP- 0.3 NA.
NA Use Glacier Park Intl altimeter setting.

MISSED APPROACH: Climb to 9200 direct POLAE and hold.

GLACIER PARK INTL ASOS	SALT LAKE CENTER	UNICOM
132.625	133.4 285.4	122.8 (CTAF) L







CATEGORY	A	B	C	D
LNAV MDA	4480-1¼ 1539 (1600-1¼)	4480-1½ 1539 (1600-1½)	NA	
CIRCLING	4480-1¼ 1539 (1600-1¼)	4480-1½ 1539 (1600-1½)	NA	

MIRL Rwy 18-36 L

NW-1, 03 JUN 2010 to 01 JUL 2010

POLSON, MONTANA

AL-9529 (FAA)

RNAV (GPS) RWY 36

POLSON (8S1)

APP CRS	Rwy Idg	4195
013°	TDZE	2941
	Apt Elev	2941

Procedure NA at night.
DME/DME RNP-0.3 NA.
Use Glacier Park Intl altimeter setting.

NA

MISSED APPROACH: Climbing left turn to 9000 direct GORTE WP and hold.

GLACIER PARK INTL ASOS	SALT LAKE CENTER	UNICOM
132.625	133.4 285.4	122.8 (CTAF) L

Procedure NA for arrival at ARLEE INT on V231 southbound and arrival at EDOBE INT on V120 westbound.

(MAP) MIGSE

3530 ±

3519

3743

BESKE 4.5 NM to MIGSE

3790 ±

(FAF) DODSE

(IAF) FABID

8500 066° (18.1) EDOBE

8100 NoPT 103° (5)

6400 013° (6)

208°

028°

6 NM

(IF/IAF) GORTE

8100 NoPT 283° (5)

(IAF) CABLI

8500 319° (18.1) ARLEE

MSA MIGSE 25 NM 11100

7250

8650

9820

5620

5660

4000

5000

6 NM Holding Pattern

GORTE

DODSE

BESKE 4.5 NM to MIGSE

MIGSE

8100

208°

028°

013°

3.22°

TCH 40

6400

4800

9000

GORTE

6 NM | 4.7 NM | 4.5 NM | 0.8

CATEGORY	A	B	C	D
LNAV	4340-1¼ 1399 (1400-1¼)	4340-1½ 1399 (1400-1½)	NA	
CIRCLING	4340-1¼ 1399 (1400-1¼)	4340-1½ 1399 (1400-1½)	NA	

ELEV 2941

18

4195 X 75

36

TDZE 2941

MIRL Rwy 18-36 L

NW-1, 03 JUN 2010 to 01 JUL 2010

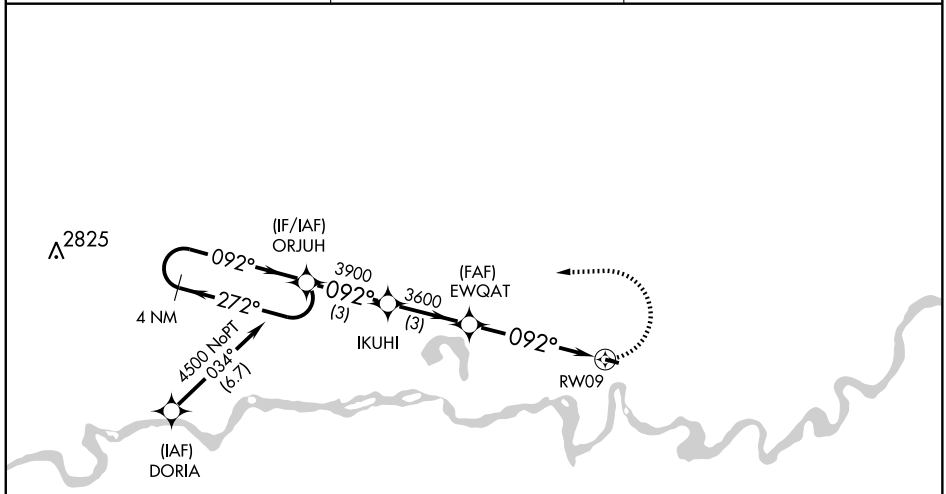
APP CRS	Rwy Idg	3030
092°	TDZE	2005
	Apt Elev	2005

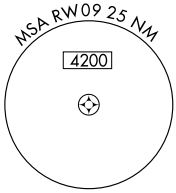
RNAV (GPS) RWY 9
POPLAR (42S)

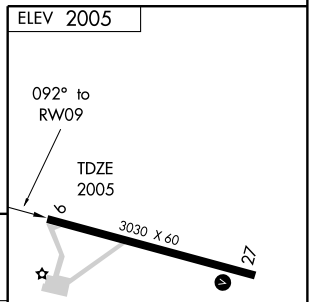
NA Use Wolf Point altimeter setting.
GPS or RNP- 0.3 required. DME/DME RNP- 0.3 NA.

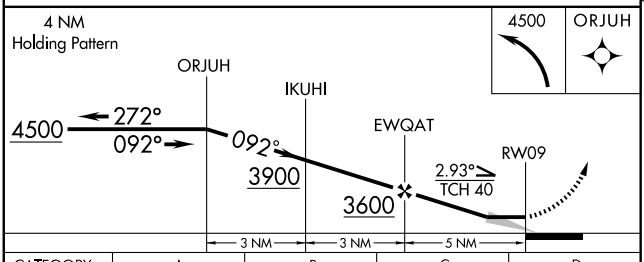
MISSED APPROACH: Climbing left turn to 4500 direct ORJUH WP and hold.

WOLF POINT ASOS	SALT LAKE CENTER	UNICOM
118.325	126.85 305.2	122.8 (CTAF) L









CATEGORY	A	B	C	D
LNAV MDA	2480-1	475 (500-1)	NA	
CIRCLING	2500-1	495 (500-1)	NA	

MIRL Rwy 9-27 L

NW-1, 03 JUN 2010 to 01 JUL 2010

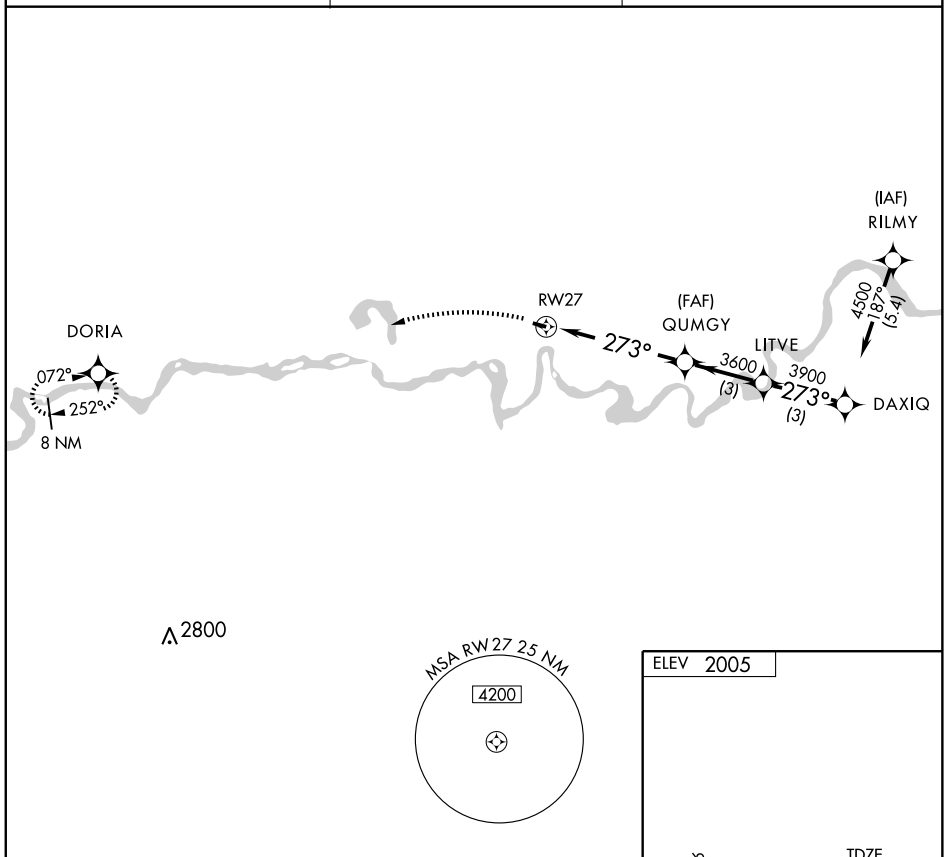
APP CRS	Rwy Idg	3030
273°	TDZE	2005
	Apt Elev	2005

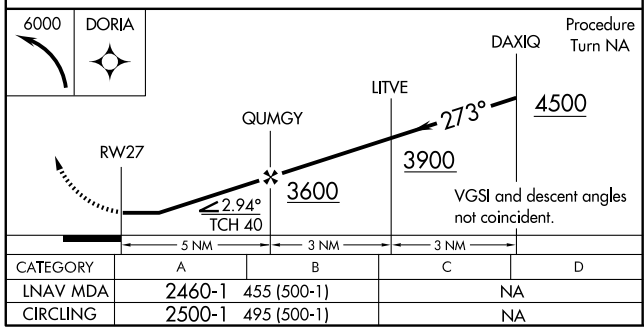
RNAV (GPS) RWY 27
POPLAR (42S)

⚠ NA Use Wolf Point altimeter setting.
GPS or RNP- 0.3 required. DME/DME RNP- 0.3 not authorized.

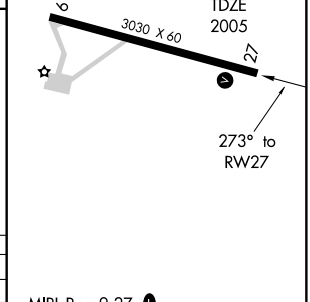
MISSED APPROACH: Climbing left turn to 6000 direct DORIA WP and hold.

WOLF POINT ASOS	SALT LAKE CENTER	UNICOM
118.325	126.85 305.2	122.8 (CTAF) L





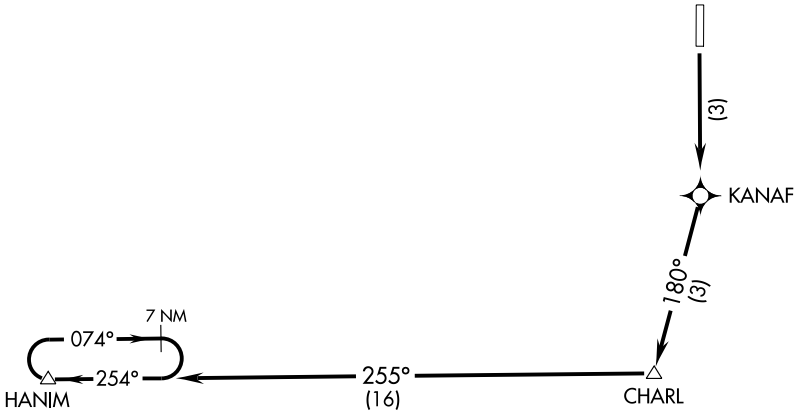
CATEGORY	A	B	C	D
LNAV MDA	2460-1	455 (500-1)	NA	
CIRCLING	2500-1	495 (500-1)	NA	



NW-1, 03 JUN 2010 to 01 JUL 2010

HANIM ONE DEPARTURE (RNAV)

SALT LAKE CITY CENTER
133.4 285.4
GREAT FALLS RADIO
122.6
CTAF 122.8



NOTE: RNAV 1.

NOTE: GPS required.

TAKE-OFF MINIMUMS:
Rwy 16: Standard.
Rwy 34: NA. See RONAN DEPARTURE.

TAKE-OFF OBSTACLE NOTE:
Rwy 16: Tree 485' from DER, 386' left of centerline, 50' AGL/3149' MSL.

NOTE: Chart not to scale

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 16: Climb to 13000 direct KANAF and via track 180° to CHARL and via track 255° to HANIM and hold, continue climb-in-hold to 13000 before proceeding on course.

NW-1, 03 JUN 2010 to 01 JUL 2010

RNAV (GPS) RWY 16

RONAN (7SØ)

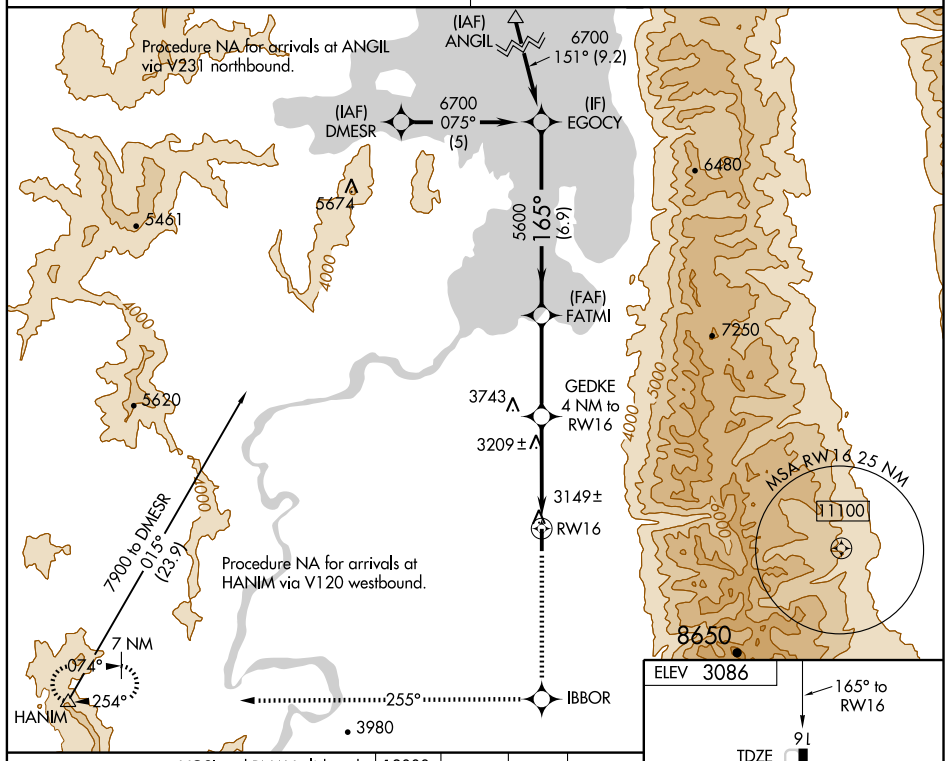
WAAS	APP CRS	Rwy Idg	4800
CH 45814	165°	TDZE	3086
W16A		Apt Elev	3086

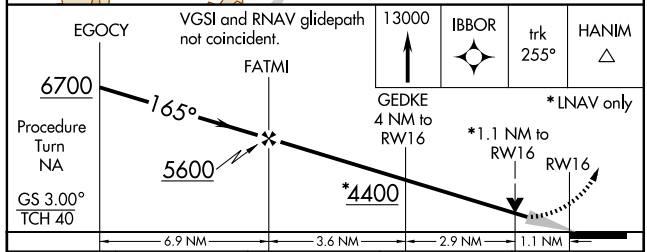
▼ NA — For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -21°C (-5°F) or above 54°C (130°F). Circling NA east of Rwys 16 and 34. DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climb to 13000 direct IBBOR and via track 255° to HANIM and hold, continue climb-in-hold to 13000.

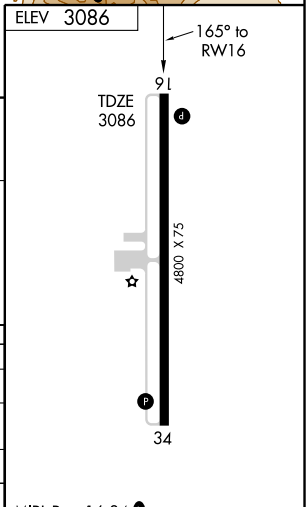
SALT LAKE CITY CENTER **133.4 285.4**

UNICOM **122.8** (CTAF) L





CATEGORY	A	B	C	D
LPV DA	3386-1 300 (300-1)		NA	
LNAV/VNAV DA	3531-1½ 445 (500-1½)		NA	
LNAV MDA	3460-1 374 (400-1)		NA	
CIRCLING	3460-1 374 (400-1)	3540-1 454 (500-1)	NA	



NW-1, 03 JUN 2010 to 01 JUL 2010

RNAV (GPS) RWY 34

RONAN (7S0)

WAAS	APP CRS	Rwy Idg	4800
CH 86614	345°	TDZE	3081
W34A		Apt Elev	3086

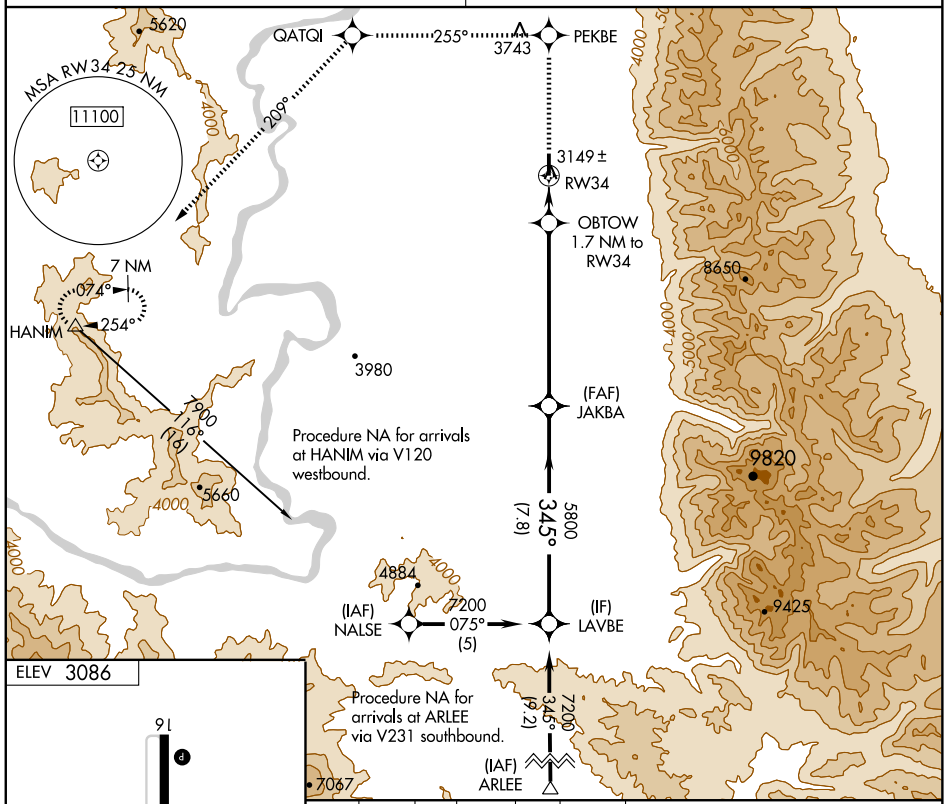
T
NA

Circling NA east of Rwys 16 and 34.
DME/DME RNP-0.3 NA.

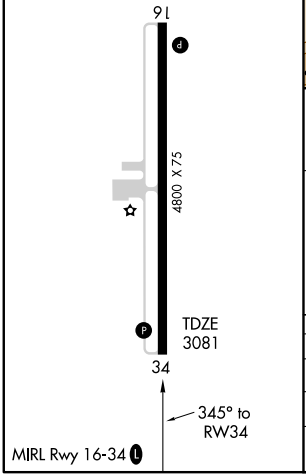
MISSED APPROACH: Climb to 13000 direct PEKBE and via track 255° to QATQI and via track 209° to HANIM and hold, continue climb-in-hold to 13000.

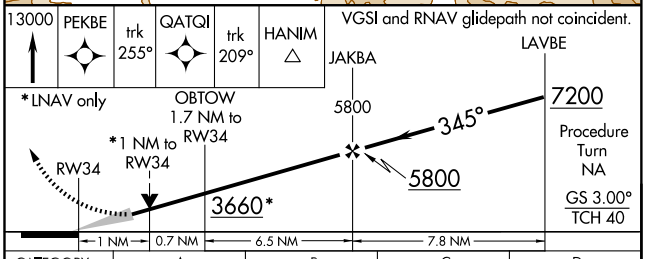
SALT LAKE CITY CENTER
133.4 285.4

UNICOM
122.8 (CTAF) L



ELEV 3086





CATEGORY	A	B	C	D
LPV DA	3392-1	311 (400-1)	NA	
LNAV MDA	3400-1	319 (400-1)	NA	
CIRCLING	3460-1 374 (400-1)	3540-1 454 (500-1)	NA	

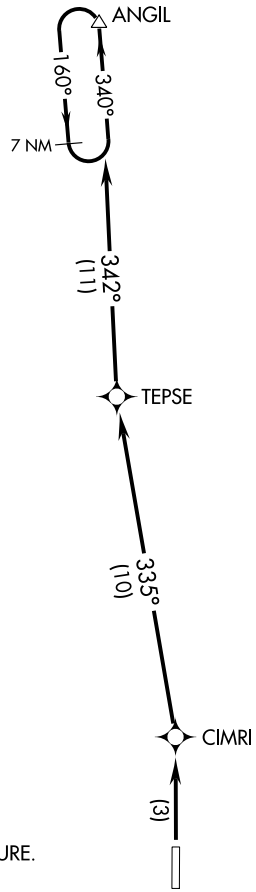
NW-1, 03 JUN 2010 to 01 JUL 2010

RONAN ONE DEPARTURE (RNAV)

SL-9978 (FAA)

RONAN (7S0)
RONAN, MONTANA

SALT LAKE CITY CENTER
133.4 285.4
GREAT FALLS RADIO
122.6
CTAF 122.8



NOTE: RNAV 1.

NOTE: GPS required.

TAKE-OFF MINIMUMS:
Rwy 16: NA. See HANIM ONE DEPARTURE.
Rwy 34: Standard.

TAKE-OFF OBSTACLE NOTES:
Rwy 34: Building 158′ from DER, 370′ left of centerline, 40′ AGL/3130′ MSL.
Tree 1358′ from DER, 556′ left of centerline, 50′ AGL/3149′ MSL.

NOTE: Chart not to scale

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 34: Climb to 10000 direct CIMRI and via track 335° to TEPSE and via track 342° to ANGIL and hold, continue climb-in-hold to appropriate MEA before proceeding on course.

NW-1, 03 JUN 2010 to 01 JUL 2010

APP CRS	Rwy Idg	4015
122°	TDZE	2385
	Apt Elev	2432

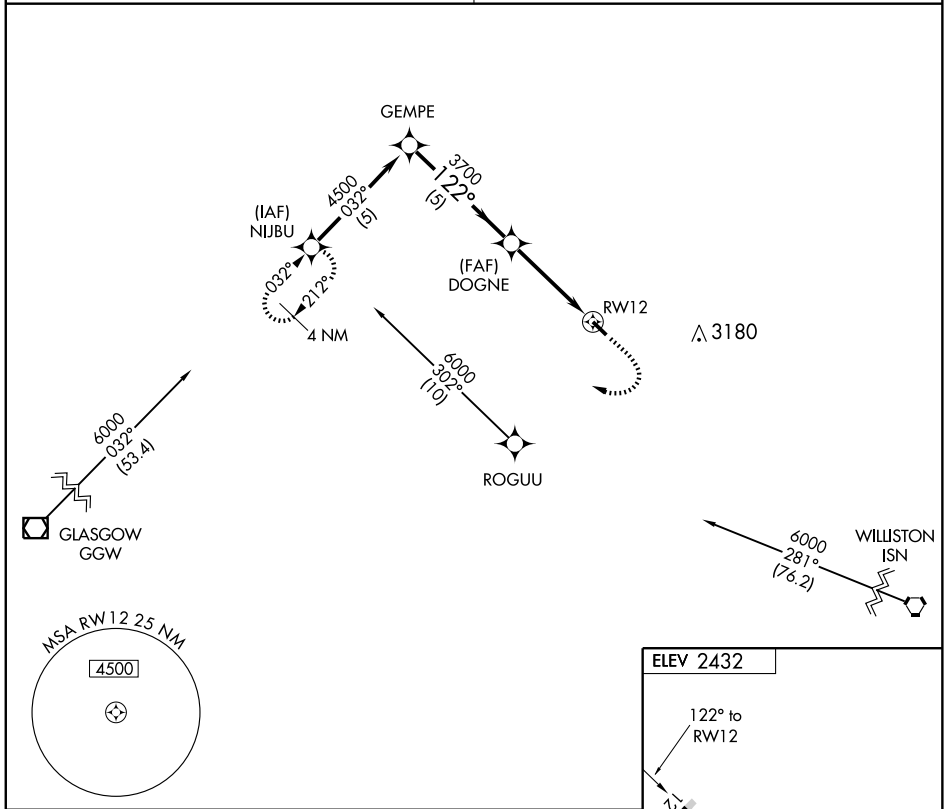
RNAV (GPS) RWY 12
SCOBEY (9S2)

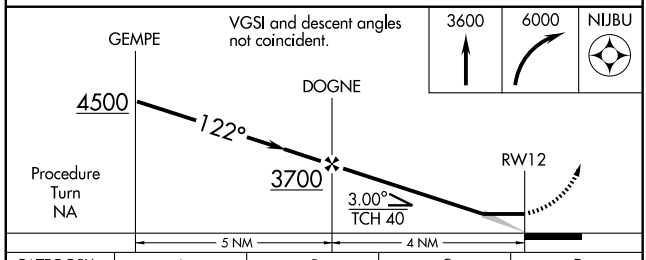
GPS or RNP-0.3 required. DME/DME RNP-0.3 NA. Use Wolf Point altimeter setting; when not received procedure not authorized.

NA

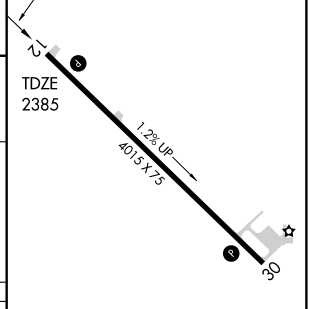
MISSED APPROACH: Climb to 3600 then climbing right turn to 6000 direct NIJBU WP and hold.

SALT LAKE CITY CENTER	UNICOM
126.85 305.2	122.8 (CTAF) L





CATEGORY	A	B	C	D
LNAV MDA	3100-1 715 (700-1)		NA	
CIRCLING	3100-1 668 (700-1)		NA	



MIRL Rwy 12-30 L

NW-1, 03 JUN 2010 to 01 JUL 2010

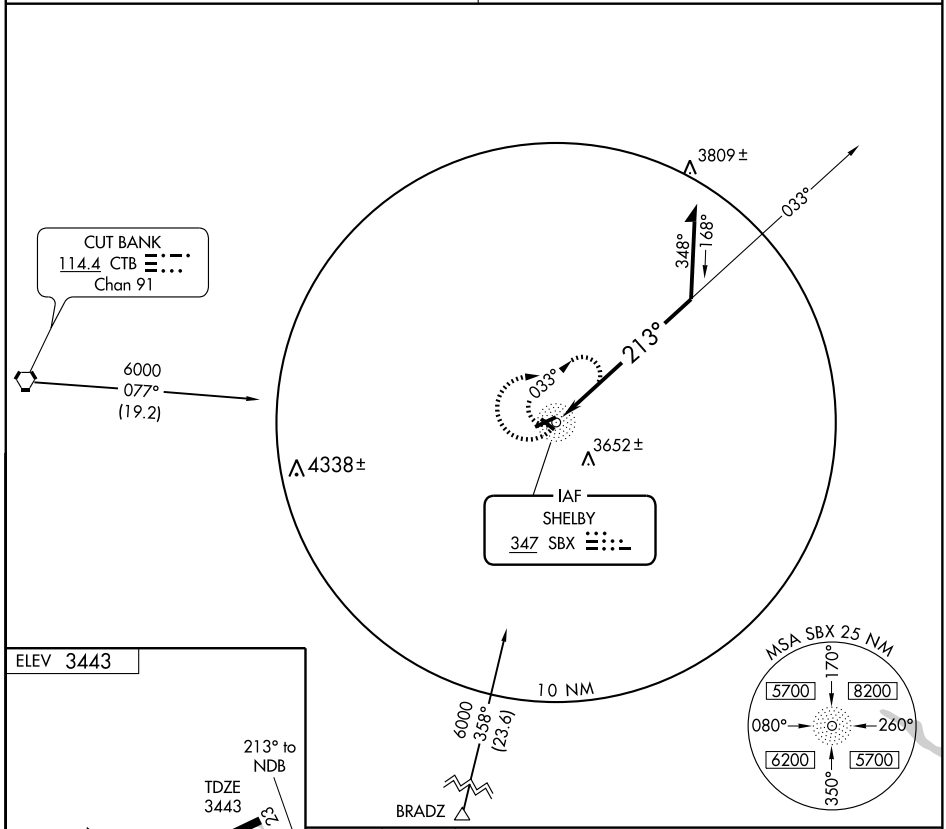
NDB SBX 347	APP CRS 213°	Rwy Idg 5004 TDZE 3443 Apt Elev 3443

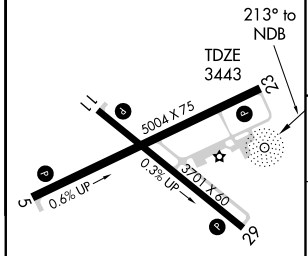
NDB RWY 23
SHELBY (SBX)

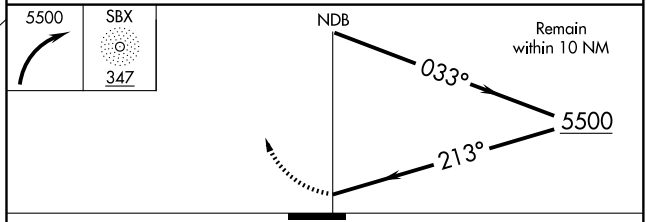
T Visibility reduction by helicopters NA.
NA Use Cut Bank altimeter setting, if not received, use Great Falls altimeter setting and increase all MDAs 120 feet.

MISSED APPROACH: Climbing right turn to 5500 in SBX NDB holding pattern.

SALT LAKE CITY CENTER	UNICOM
133.4 285.4	122.8 (CTAF) L







CATEGORY	A	B	C	D
S-23	4240-1 797 (800-1)	4240-1¼ 797 (800-1¼)	4240-2¼ 797 (800-2¼)	NA
CIRCLING	4240-1 797 (800-1)	4240-1¼ 797 (800-1¼)	4240-2¼ 797 (800-2¼)	NA

MIRL Rwys 5-23 and 11-29 L

NW-1, 03 JUN 2010 to 01 JUL 2010

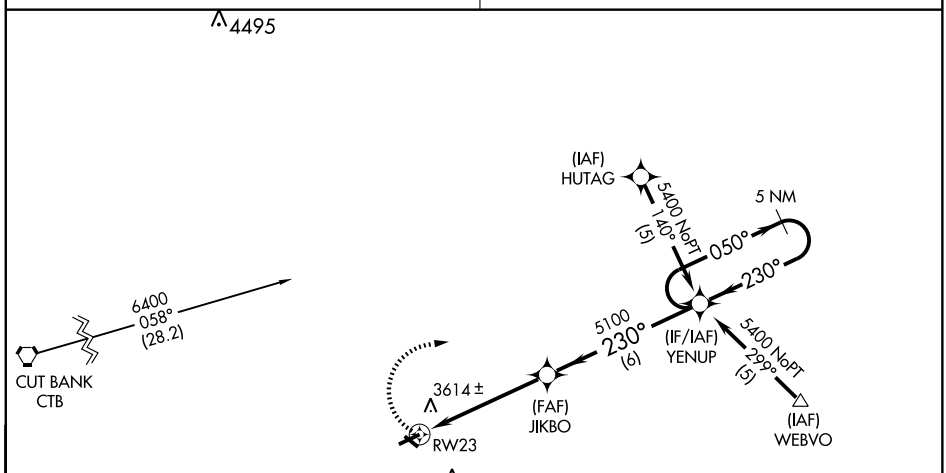
APP CRS		
230°	Rwy Idg	5004
	TDZE	3443
	Apt Elev	3443

RNAV (GPS) RWY 23
SHELBY (SBX)

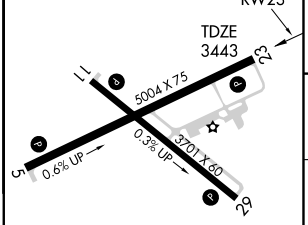
DME/DME RNP- 0.3 NA.
Circling NA at night.
NA Visibility reduction by helicopters NA.
Use Cut Bank altimeter setting, if not received, use Great Falls altimeter setting and increase all MDAs 120 feet.

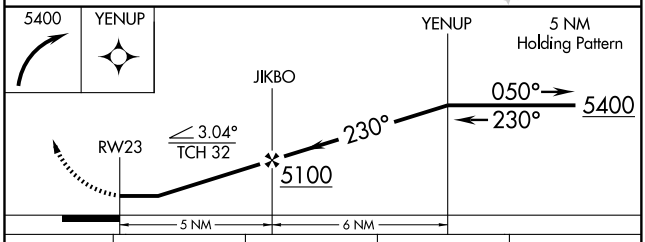
MISSED APPROACH: Climbing right turn to 5400 direct YENUP and hold.

SALT LAKE CITY CENTER	UNICOM
133.4 285.4	122.8 (CTAF) L









CATEGORY	A	B	C	D
LNAV MDA	4060-1	617 (700-1)	4060-1¾ 617 (700-1¾)	NA
CIRCLING	4120-1	677 (700-1)	4120-2 677 (700-2)	NA

MIRL Rwys 5-23 and 11-29 L

NW-1, 03 JUN 2010 to 01 JUL 2010

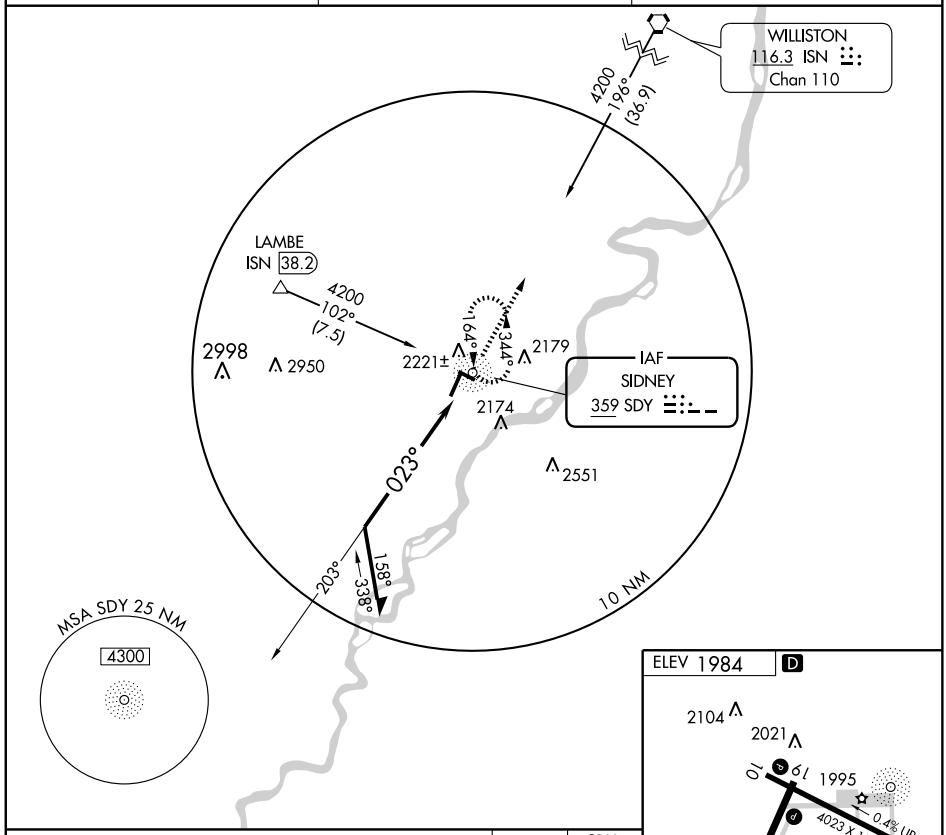
NDB SDY 359	APP CRS 023°	Rwy Idg 5705 TDZE 1984 Apt Elev 1984

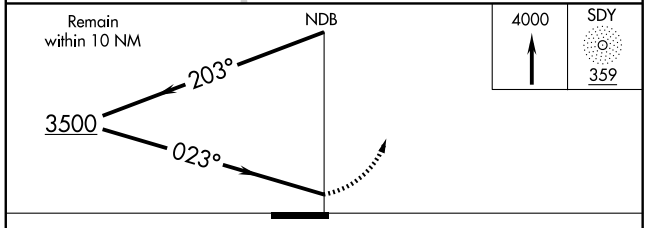
NDB RWY 1

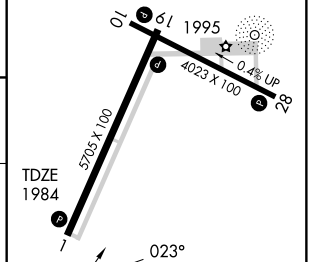
SIDNEY-RICHLAND MUNI (SDY)

MISSED APPROACH: Climb to 4000 then direct SDY NDB and hold.

AWOS-3	GREAT FALLS RADIO	UNICOM
119.275	123.65	122.8 (CTAF) L







CATEGORY	A	B	C	D
S-1	2720-1	736 (800-1)	2720-2 736 (800-2)	2720-2¼ 736 (800-2¼)
CIRCLING	2720-1	736 (800-1)	2720-2 736 (800-2)	2720-2¼ 736 (800-2¼)

REIL Rwys 1,19, 10, and 28 L
MIRL Rwys 1-19 and 10-28 L

NW-1, 03 JUN 2010 to 01 JUL 2010

SIDNEY, MONTANA AL-5303 (FAA)

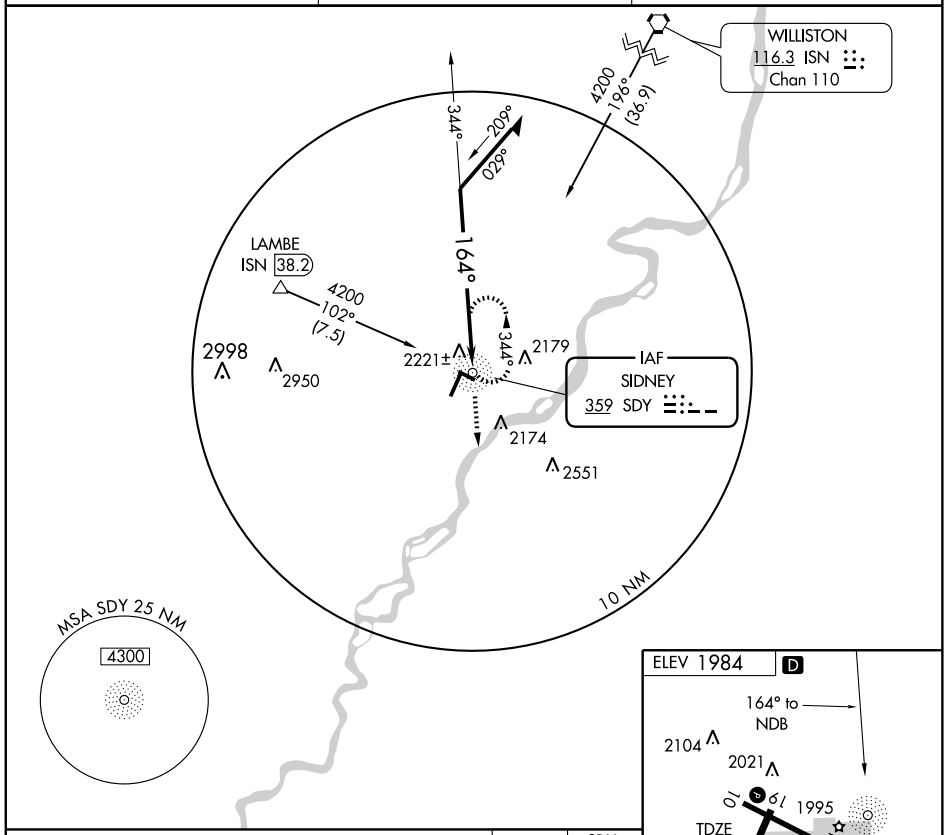
NDB SDY 359	APP CRS 164°	Rwy Idg 5705 TDZE 1979 Apt Elev 1984

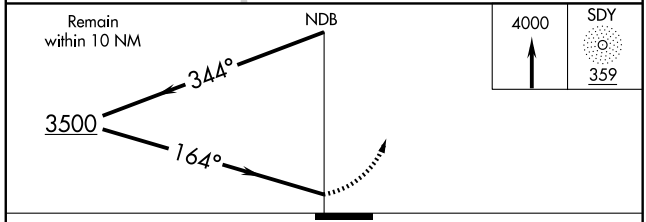
NDB RWY 19

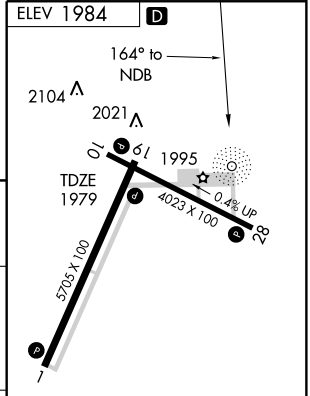
SIDNEY-RICHLAND MUNI (SDY)

MISSED APPROACH: Climb to 4000 then direct SDY NDB and hold.

AWOS-3	GREAT FALLS RADIO	UNICOM
119.275	123.65	122.8 (CTAF) L







CATEGORY	A	B	C	D
S-19	2780-1 801 (800-1)	2780-1¼ 801 (800-1¼)	2780-2¼ 801 (800-2¼)	2780-2½ 801 (800-2½)
CIRCLING	2780-1 796 (800-1)	2780-1¼ 796 (800-1¼)	2780-2¼ 796 (800-2¼)	2780-2½ 796 (800-2½)

REIL Rwys 1,19, 10, and 28 L
MIRL Rwys 1-19 and 10-28 L

NW-1, 03 JUN 2010 to 01 JUL 2010

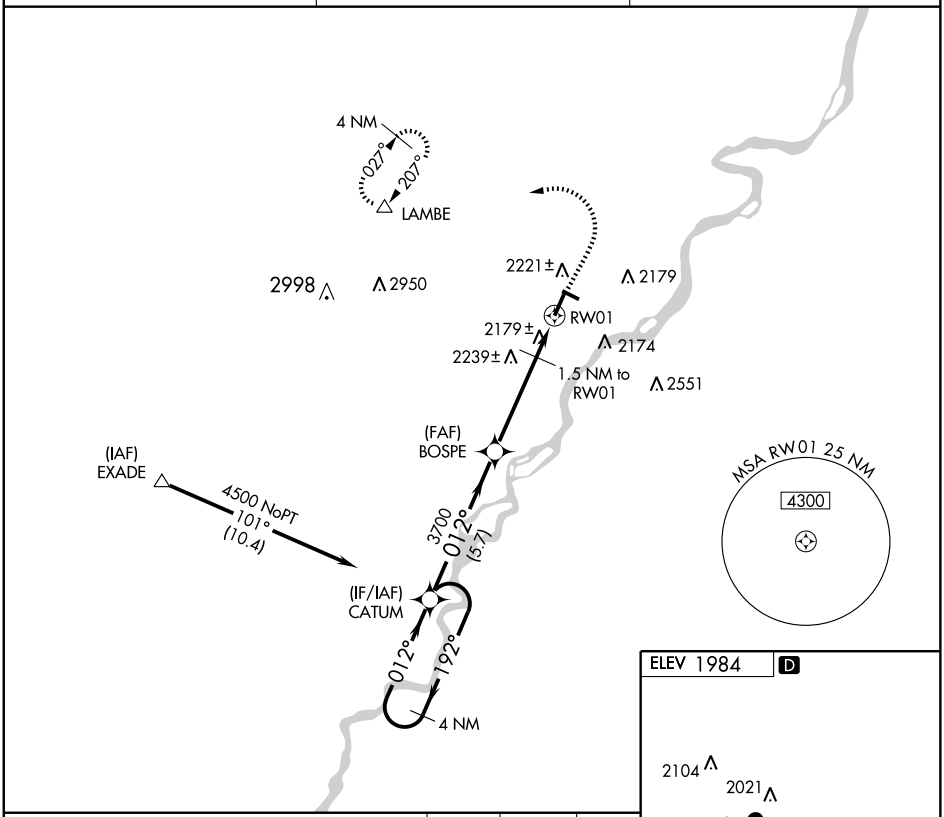
APP CRS	Rwy Idg	5705
012°	TDZE	1984
	Apt Elev	1984

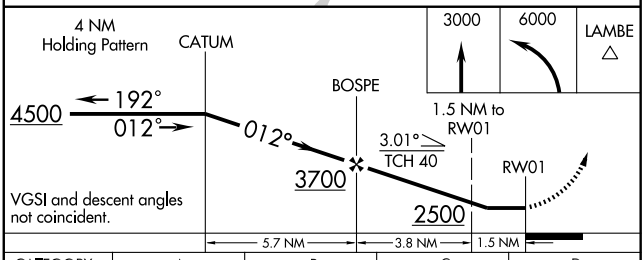
RNAV (GPS) RWY 1
SIDNEY-RICHLAND MUNI (SDY)

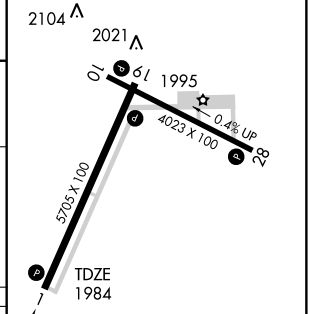
NA GPS or RNP- 0.3 required. DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climb to 3000 then climbing left turn to 6000 direct LAMBE WP and hold.

AWOS-3	GREAT FALLS RADIO	UNICOM
119.275	123.65	122.8 (CTAF) L







CATEGORY	A	B	C	D
LNAV MDA	2440-1	456 (500-1)	2440-1¼ 456 (500-1¼)	2440-1½ 456 (500-1½)
CIRCLING	2620-1 636 (700-1)	2640-1 656 (700-1)	2680-2 696 (700-2)	2700-2¼ 716 (800-2¼)

NW-1, 03 JUN 2010 to 01 JUL 2010

APP CRS	Rwy Idg	5705
192°	TDZE	1979
	Apt Elev	1984

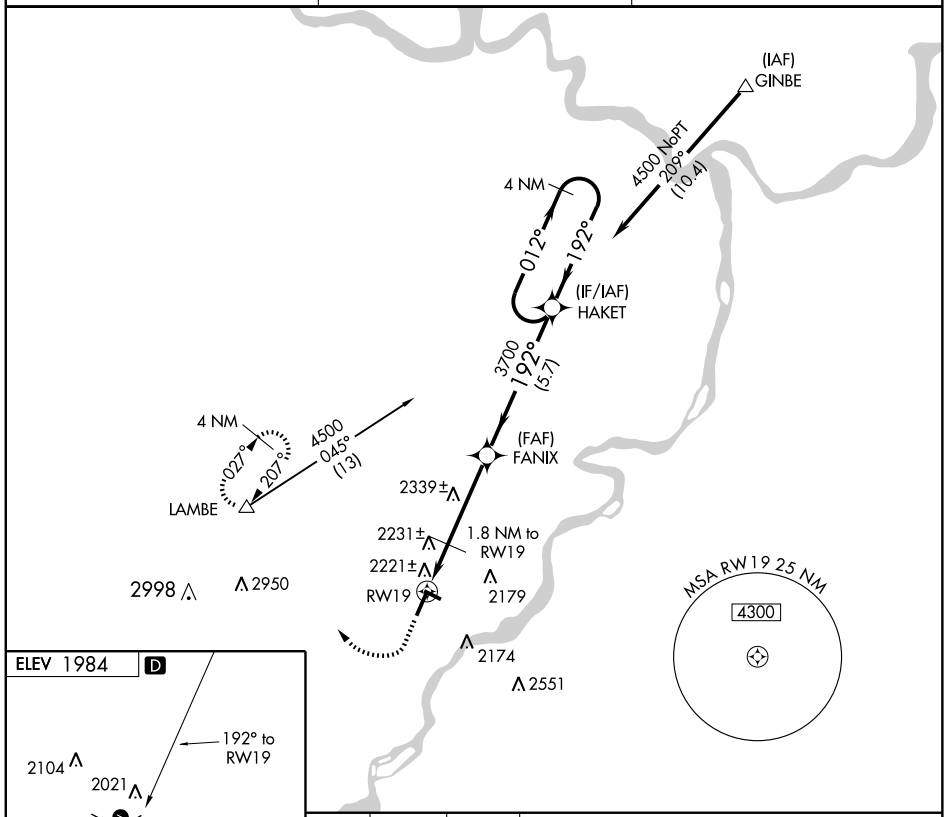
RNAV (GPS) RWY 19

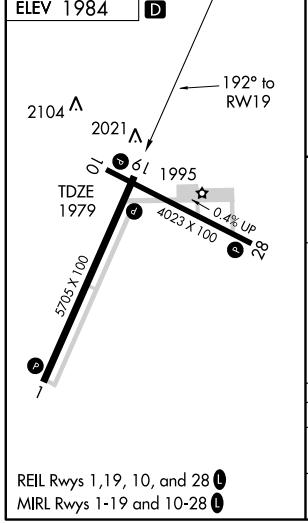
SIDNEY-RICHLAND MUNI (SDY)

T
A NA GPS or RNP- 0.3 required. DME/DME RNP- 0.3 NA.

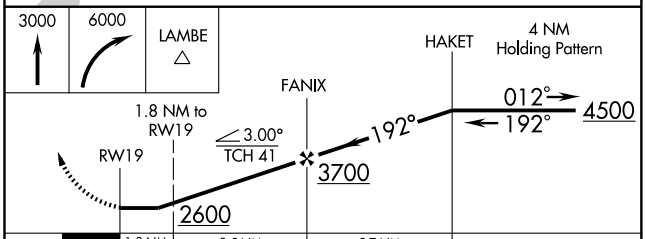
MISSED APPROACH: Climb to 3000 then climbing right turn to 6000 direct LAMBE WP and hold.

AWOS-3	GREAT FALLS RADIO	UNICOM
119.275	123.65	122.8 (CTAF) L





REIL Rwys 1,19, 10, and 28 L
MIRL Rwys 1-19 and 10-28 L



CATEGORY	A	B	C	D
LNAV MDA	2500-1	521 (600-1)	2500-1½ 521 (600-1½)	2500-1¾ 521 (600-1¾)
CIRCLING	2620-1 636 (700-1)	2640-1 656 (700-1)	2680-2 696 (700-2)	2700-2¼ 716 (800-2¼)

NW-1, 03 JUN 2010 to 01 JUL 2010

STEVENSVILLE, MONTANA

AL-9301 (FAA)

RNAV (GPS)-A

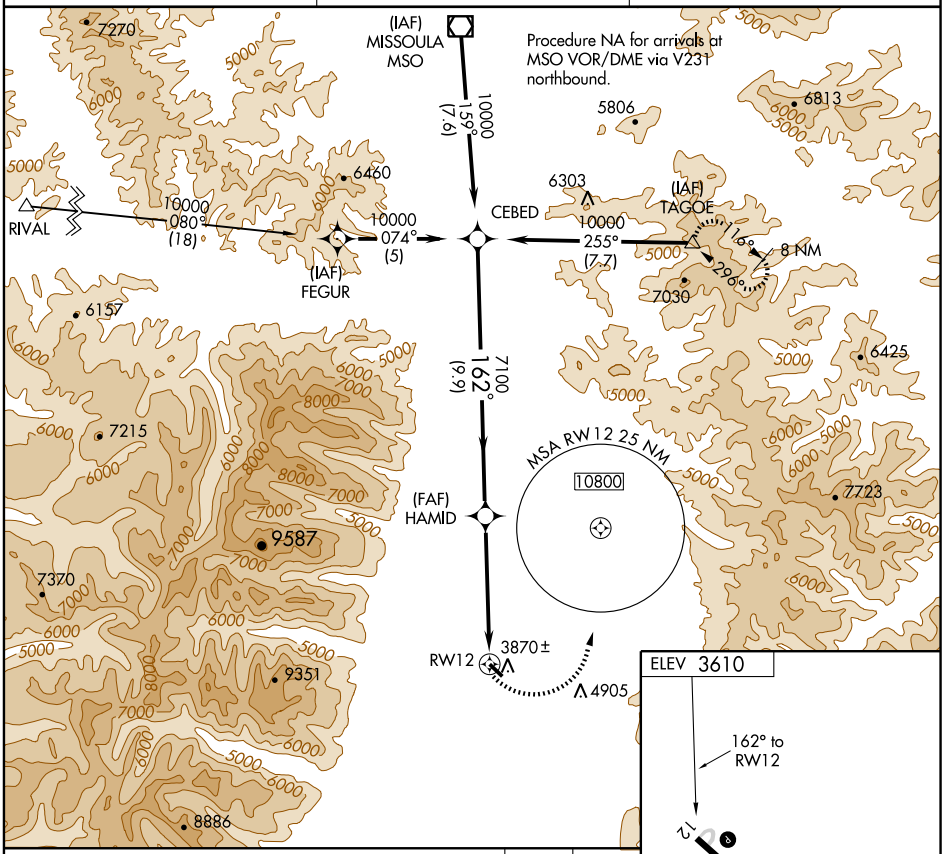
STEVENSVILLE (32S)

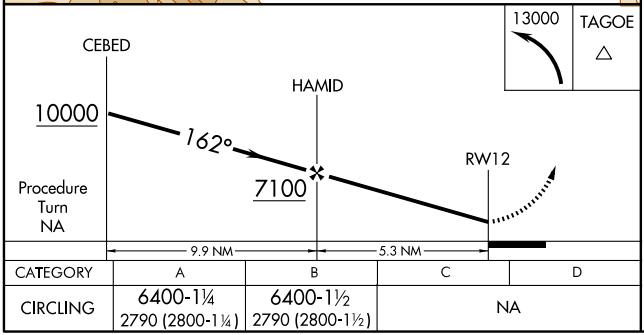
APP CRS	Rwy Idg	N/A
162°	TDZE	N/A
	Apt Elev	3610

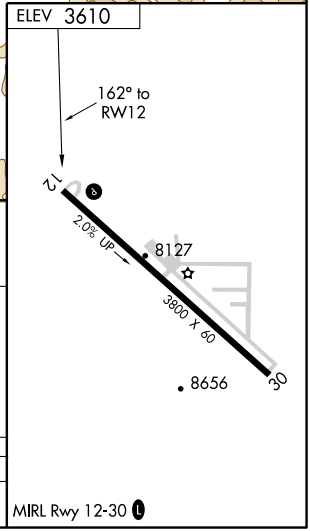
DME/DME RNP- 0.3 NA.
Use Missoula Intl altimeter setting.
Circling NA at night to Rwy 30.

MISSED APPROACH: Climbing left turn to 13000 direct TAGOE WP and hold.

MISSOULA ASOS	SPOKANE APP CON ★	UNICOM
126.65	124.9 298.95	122.8 (CTAF) L







CATEGORY	A	B	C	D
CIRCLING	6400-1¼ 2790 (2800-1¼)	6400-1½ 2790 (2800-1½)	NA	

MIRL Rwy 12-30 L

NW-1, 03 JUN 2010 to 01 JUL 2010

LOC I-LOW	APP CRS	Rwy Idg	8399
110.7	010°	TDZE	6644
		Apt Elev	6644

ILS or LOC RWY 1

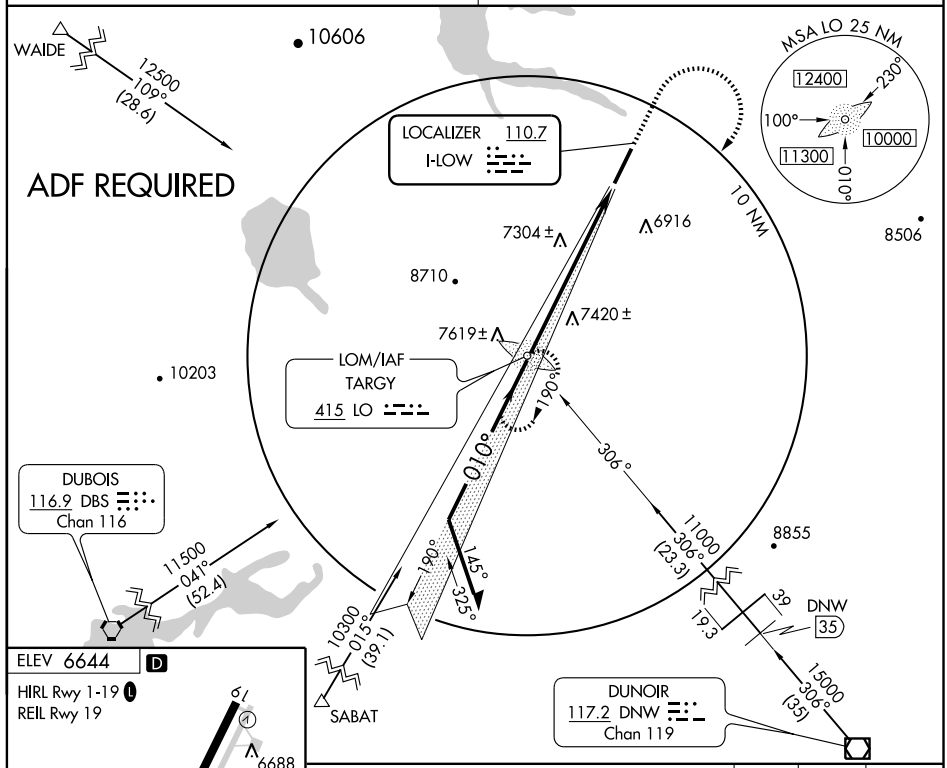
WEST YELLOWSTONE/YELLOWSTONE (WYS)

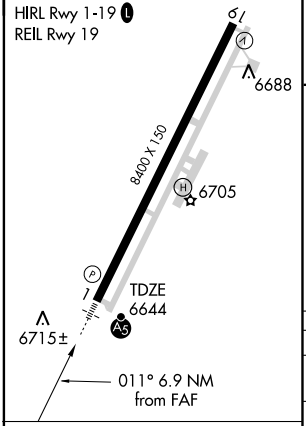
T NA — If local altimeter setting not received, procedure not authorized.

MALSR

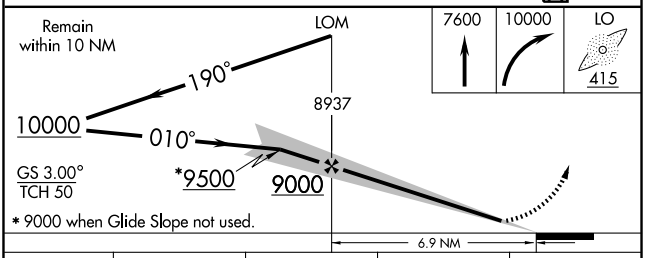
MISSED APPROACH: Climb to 7600, then climbing right turn to 10000 direct LO LOM and hold.

SALT LAKE CENTER	UNICOM
132.4 338.3	123.0 (CTAF) L





FAF to MAP 6.9 NM					
Knots	60	90	120	150	180
Min:Sec	6:54	4:36	3:27	2:46	2:18



CATEGORY	A	B	C	D
S-ILS 1	6844-½ 200 (200-½)			
S-LOC 1	7720-¾ 1076 (1100-¾)	7720-1 1076 (1100-1)	7720-2½ 1076 (1100-2½)	
CIRCLING	7720-1¼ 1076 (1100-1¼)	7720-1½ 1076 (1100-1½)	7720-3 1076 (1100-3)	

NW-1, 03 JUN 2010 to 01 JUL 2010

LOM LO	APP CRS	Rwy Idg	8399
415	011°	TDZE	6644
		Apt Elev	6644

NDB or GPS RWY 1

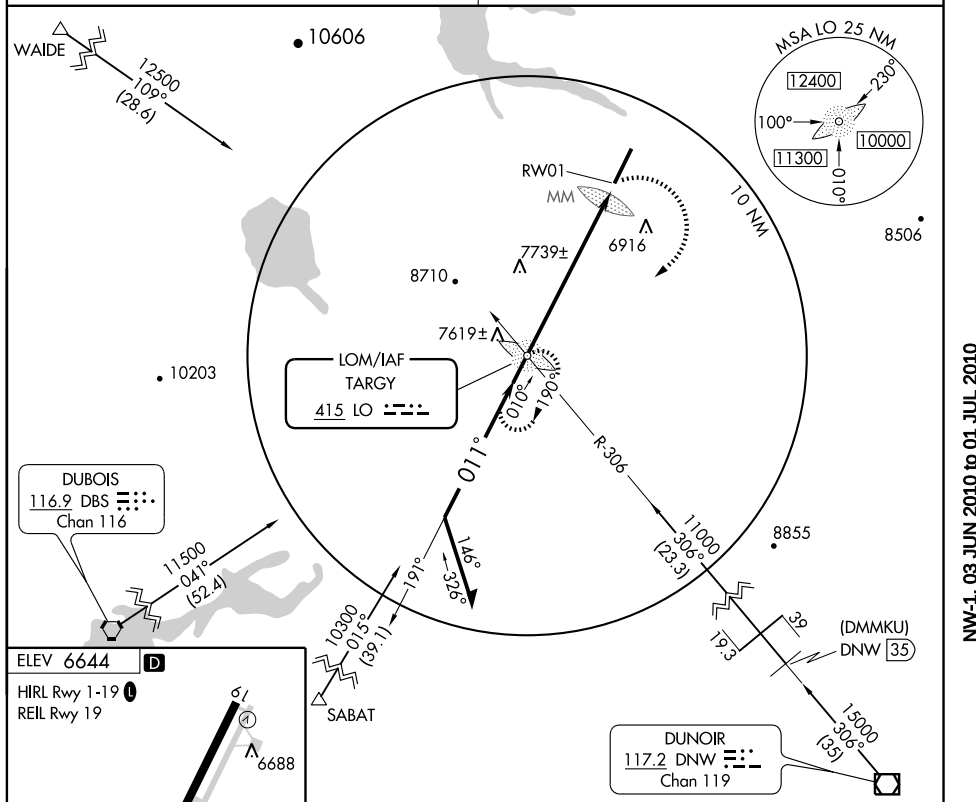
WEST YELLOWSTONE/YELLOWSTONE (WYS)

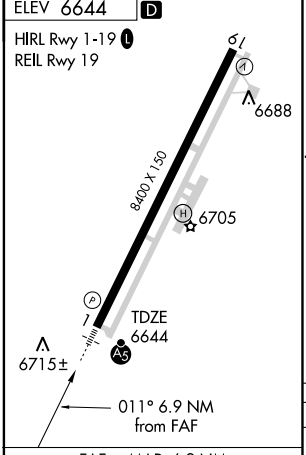
If local altimeter setting not received, procedure not authorized. Categories A and B, S-1 visibility increased ½ mile for inoperative MALSR.

MALSR

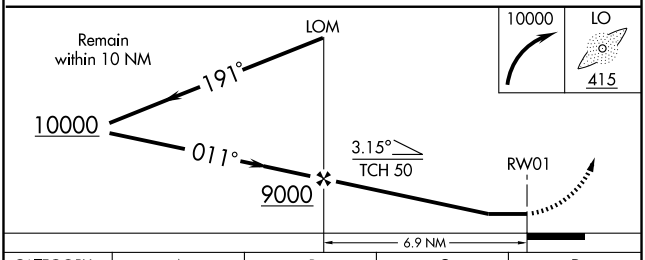
MISSED APPROACH: Climbing right turn to 10000 direct LO LOM and hold.

SALT LAKE CENTER	UNICOM
132.4 338.3	123.0 (CTAF) L





FAF to MAP 6.9 NM					
Knots	60	90	120	150	180
Min:Sec	6:54	4:36	3:27	2:46	2:18



CATEGORY	A	B	C	D
S-1	8000-¾ 1356 (1400-¾)	8000-1 1356 (1400-1)	8000-2½ 1356 (1400-2½)	8000-2¾ 1356 (1400-2¾)
CIRCLING	8000-1¼ 1356 (1400-1¼)	8000-1½ 1356 (1400-1½)	8000-3 1356 (1400-3)	

NW-1, 03 JUN 2010 to 01 JUL 2010

NDB OLF 404	APP CRS 286°	Rwy Idg 5089 TDZE 1986 Apt Elev 1986

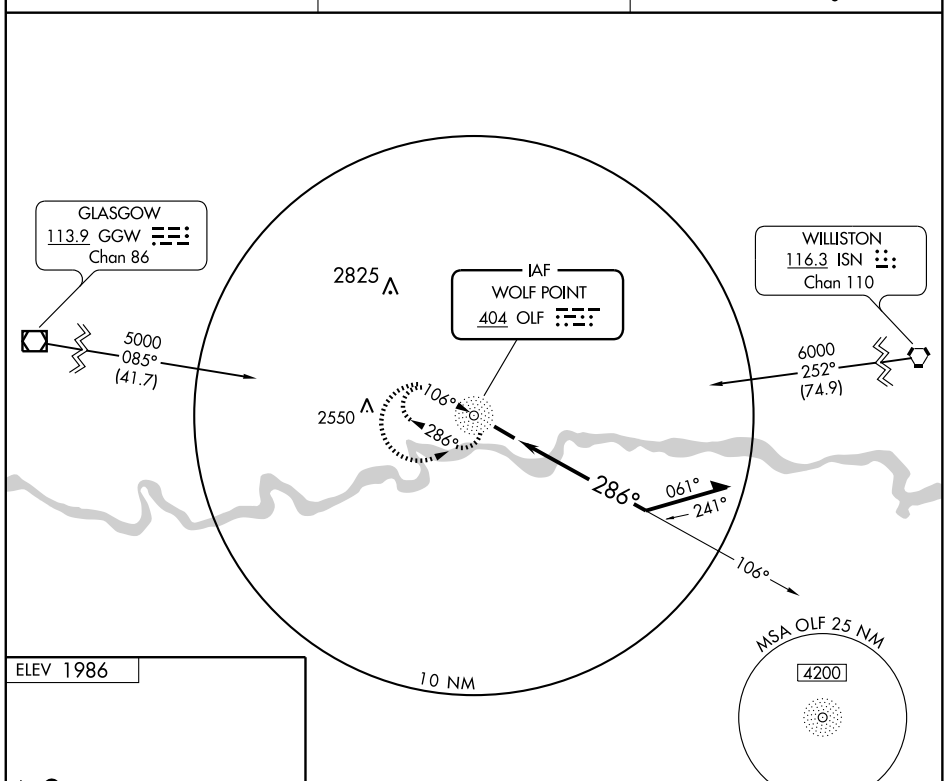
NDB RWY 29

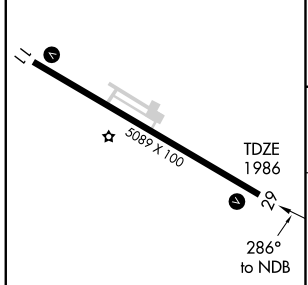
WOLF POINT/L. M. CLAYTON (OLF)

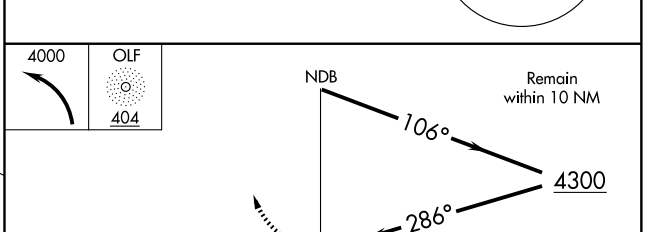
NA If local altimeter setting not received, used Wokal Field/Glasgow Intl altimeter setting and increase all MDAs 160 feet.

MISSED APPROACH: Climbing left turn to 4000 direct OLF NDB continue climb-in-hold to 4000.

ASOS	SALT LAKE CENTER	UNICOM
118.325	126.85 305.2	122.8 (CTAF) L







MIRL Rwy 11-29 L
REIL Rwy 11-29 L

Knots	60	90	120	150	180
Min:Sec					

CATEGORY	A	B	C	D
S-29	2820-1 834 (900-1)	2820-1¼ 834 (900-1¼)	2820-2½ 834 (900-2½)	2820-2¾ 834 (900-2¾)
CIRCLING	2820-1 834 (900-1)	2820-1¼ 834 (900-1¼)	2820-2½ 834 (900-2½)	2820-2¾ 834 (900-2¾)

NW-1, 03 JUN 2010 to 01 JUL 2010

APP CRS	Rwy Idg	5089
109°	TDZE	1986
	Apt Elev	1986

RNAV (GPS) RWY 11

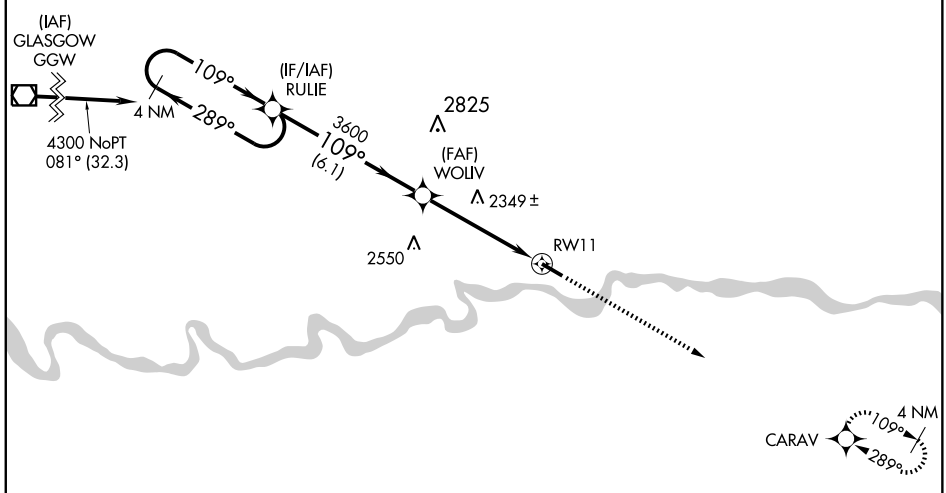
WOLF POINT/L. M. CLAYTON (OLF)

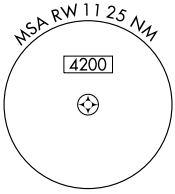
DME/DME RNP-0.3 NA.
If local altimeter setting not received, use Wokal Field/Glasgow Intl altimeter setting and increase all MDAs 140 feet.
VDP NA when using Wokal Field/Glasgow Intl altimeter setting.
Straight-in minimums NA at night.

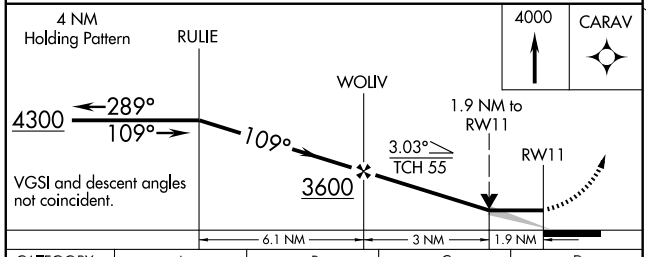
MISSED APPROACH: Climb to 4000 direct CARAV and hold.

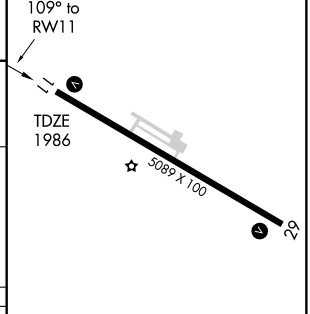
ASOS	SALT LAKE CENTER	UNICOM
118.325	126.85 305.2	122.8 (CTAF) L

Procedure NA for arrival at GGW VOR/DME via V430 westbound.









CATEGORY	A	B	C	D
LNAV MDA	2600-1	614 (700-1)	2600-1¾ 614 (700-1¾)	2600-2 614 (700-2)
CIRCLING	2600-1	614 (700-1)	2600-1¾ 614 (700-1¾)	2600-2 614 (700-2)

MIRL Rwy 11-29 L
REIL Rwy 11-29 L

NW-1, 03 JUN 2010 to 01 JUL 2010

APP CRS	Rwy Idg	5089
289°	TDZE	1986
	Apt Elev	1986

RNAV (GPS) RWY 29

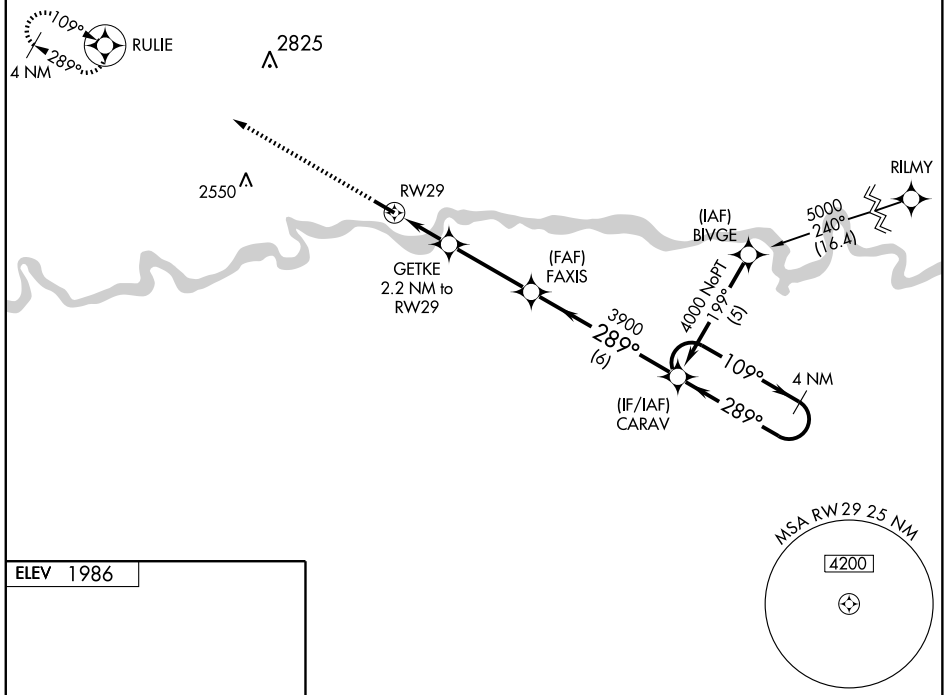
WOLF POINT/ L. M. CLAYTON (OLF)

DME/DME RNP- 0.3 NA.
If local altimeter setting not received, use Wokal Field/Glasgow Intl altimeter setting and increase all MDAs 160 feet.
VDP NA when using Wokal Field/Glasgow Intl altimeter setting.

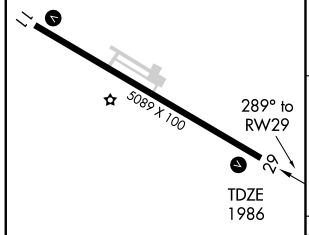
MISSED APPROACH: Climb to 4300 direct RULIE and hold.

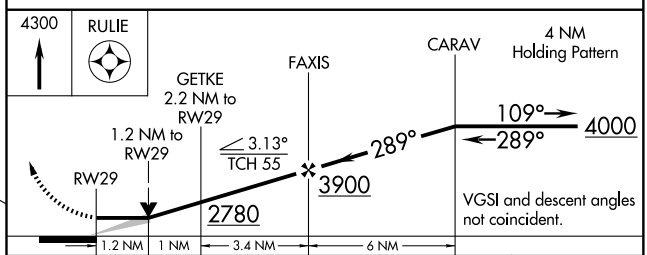
ASOS	SALT LAKE CENTER	UNICOM
118.325	126.85 305.2	122.8 (CTAF) L

Procedure NA for arrival at RILMY via V430 eastbound.



ELEV 1986





CATEGORY	A	B	C	D
LNAV MDA	2380-1 394 (400-1)			2380-1¼ 394 (400-1¼)
CIRCLING	2540-1 554 (600-1)		2540-1½ 554 (600-1½)	2580-2 594 (600-2)

MIRL Rwy 11-29 L
REIL Rwy 11-29 L

NW-1, 03 JUN 2010 to 01 JUL 2010